Family Medicine Clerkship EBM Review In-Class Exercise

Your	Name:		Email:					
1.	What are the four major categories of Economics/Cost analysis Etiology/Harm		t all that apply) Prediction Therapy					
2.	 What are the three major components of Evidence-Based Medicine? (Select one) Expert opinion, clinical experience, and research evidence Research evidence, clinical experience, and patient's preference, values and rights. Patient testimony, media advertisement, and expert opinion Research evidence, good interpersonal skill, and personal observation 							
3.	or S for secondary. <u>S</u> Book Chapters <u>S</u> Practice Guidelines (NGC)	_ <mark>S_</mark> Systematic Reviews/	oToDate, Essential Evidence Plus)					
4.	PubMed vs. PubMed Clinical Queries: Which one offers specialized search filters to optimize PubMed search strategies for retrieving sound clinical studies in etiology, prognosis, diagnosis, and therapy? The Search may be either broad and sensitive, or narrow and specific. (Circle one) A. PubMedB. PubMed Clinical Queries							
5.	What kind of literature would you exA. Practice GuidelinesD. Editorials	B. Book Chapters						
6.	What kind of literature would you ex A. Practice Guidelines D. Narrative reviews	B. Book Chapters	iideline Clearinghouse? (Circle one) C. Expert Opinions views/Meta Analysis					
7.	What kind of literature would you exA. Practice GuidelinesD. Syntheses of peer-reviewed article	B. Book Chapters	C. Expert Opinions					
8.	In evaluating a study on therapy , while recommendation? (Circle one) A. Case Series C. Narrative Reviews	hat kind of study design wo B. Randomized Controlle D. Case Controls	uld you look for in making a therapeutic d Trials E. Cohort Studies					
9.	Which feature in PubMed allows yo search strategies? (Circle one) A. Search History D. Search Builder	ou to view, combine, expan B. Clipboard E. Display Setting	d, or copy and paste your previous C. Send To					

- 10. The first step of EBM is to ask a well-built focused clinical question with the **PICO** components. What does **PICO** stand for? (Select one)
 - \square **P** = People; **I** = Information; **C** = Computer; **O** = Overall
 - \square **P** = Population/Problems; **I** Information; **C** = Combine; **O** = Overcome
 - \square **P** = Population/Problems; **I** Intervention/Exposure; **C** = Comparison; **O** = Outcome

11. Why bother framing your clinical questions in PICO format? [Check all that apply] A PICO question:

- \checkmark forces you to ask a specific and focused question that has a specific goal (outcome).
- ✓ helps focus on evidence directly relevant to your patient's needs and your specific knowledge needs
- help making a search of the medical literature easier by identifying specific search concepts and keywords
- ✓ is answerable, reinforcing the satisfaction of finding evidence that makes you a better, more effective clinician.
- 12. P = Population/Problems; I Intervention/Exposure; C = Configuration; O = Overview Which Boolean operators may be used in a PubMed search to connect multiple search concepts? For example: "In children with a sore throat, does the rapid strep test provide an accurate diagnosis for possible strep throat?" (Select one)

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and, or, but

but • +, -, =

□ AND, BUT, NOT

- 13. There are two types of clinical question, Background vs. Foreground. Please identify the followings:
 "How do you treat frozen shoulder?" Background Foreground
 - "In adult patient diagnosed with frozen shoulder, what is the efficacy of NSAIDs and Physical Therapy vs. steroid injections in alleviating pain, reducing inflammation, increasing range of motion restrictions?"
 Background
- 14. Please convert the question into a PICO, "In adult patient diagnosed with frozen shoulder, what is the efficacy of NSAIDs and Physical Therapy vs. steroid injections in alleviating pain, reducing inflammation, increasing range of motion restrictions?"

P: <u>adult patient diagnosed with frozen shoulder</u> **I:** <u>NSAIDs and Physical Therapy</u> **C:** <u>steroid injections</u> **O**: <u>alleviating pain, reducing inflammation, increasing range of motion</u> <u>restrictions</u>

In adult patient diagnosed with frozen shoulder, what is the efficacy of NSAIDs and Physical Therapy vs. steroid injections in alleviating pain, reducing inflammation, increasing range of motion restrictions?

• Based on the PICO above, are there any Cochrane Reviews published in this topic and what search strategy will you use?

Show Results in:

Cochrane Reviews [0] | Other Reviews [0] | Clinical Trials [0] | Methods Studies [0] | Technology Assessments [0] | Economic Evaluations [0] | Cochrane Groups [0]

There are 0 results out of **6191 records** for: "**frozen shoulder OR bursitis OR adhesive capsulitis** in **Title, Abstract or Keywords** and (**physical therapy AND non steroid anti inflammatory agents**) in **Title, Abstract or Keywords** in **Cochrane Database of Systematic Reviews**"

• Based on the PICO above, how many Practice Guidelines have been published in this topic and what search terms you will use?

Keyword: frozen shoulder OR bursitis OR adhesive capsulitis

Your search found 19 related guidelines, which are listed below by relevance. Use the "Limit Search" button to sort by publication date.

- Based on the PICO above, what is your PubMed Clinical Queries search strategy and what are your search terms? How many RCTs did you find?
 - Search ((frozen shoulder OR bursitis OR adhesive capsulitis) AND (physical therapy AND non steroid anti inflammatory agents) AND steroids AND injections) AND (Therapy/Narrow[filter]) Limits: Humans, English, All Adult: 19+ years 14:48:34 6 Search result: 6 RCT
- 15. Clinical Question: "What is the appropriate dietary control in overweight patients with Type II diabetes?"
 - Is this a well-built clinical question? If not, can this be converted to an answerable clinical question in a PICO format? In obese patient diagnosed with type II diabetes, what is the efficacy of low fat Mediterranean diet compared with low carbohydrate diet result in better weight loss and glycemic control, as well as reducing the risk of developing heart diseases?
 - Based on the PICO above, what is your PubMed search strategy?

Search ((type 2 diabetes AND (obesity OR Obese OR overweight OR weight loss) AND Mediterranean diet AND low carbohydrate diet)) AND (Therapy/Narrow[filter]) Limits: English, All Adult: 19+ years

- 16. Clinical Question: "What is the efficacy of insulin therapy for hyperglycemia in VLBW infants?"
 - Please convert to an answerable question (PICO).

P = VLBW Infants **I** = Insulin **C** = Placebo **O** = Hypergleemic control

- What is the PubMed search strategy and how many studies did you find?
 - Search (Insulin AND very low birth weight AND hyperglycemia) AND (Therapy/Narrow[filter]) Limits: English, All Infant: birth-23 months 17:51:30 13