FPIN Journal Club and EBM Curriculum

I. Learning Standards
   1. RRC Requirements
      a. Residents must gain practical experience in data searching and grading, statistical methods, and application to practice
      b. The training environment must be in compliance with evidence based medicine practice

II. Objectives of Journal Club
   1. By the end of the residency, all residents will be able to perform the five basic components of Evidence Based Medicine and critical appraisal. These components include;
      - Ask answerable questions
      - Assessing validity and relevance of the article
      - Synthesizing data
      - Applying the evidence to their practice
   2. By the end of residency, all residents will know how to use these EBM skills in making clinical decisions.
   3. All residents will be able to conduct a critical appraisal of original research.

III. Components of Journal Club
   1. Journal Club (JC) is a longitudinal experience. Repeat exposure to EBM concepts over the 3 year residency to achieve the goals of the Journal Club curriculum. Recommend to conduct JC monthly.
      http://www.jfponline.com/default.asp
      - Obtain the original research article to critically appraise during JC
      - Utilize worksheets during JC to guide the critical appraisal
      - Utilize the faculty speaker notes to help guide the critical appraisal
      - Utilize the PURLs article to assist leading your discussion, then review at the end of JC and decide if you agree with the PURL summary

IV. Format of Journal Club
   1. Resident learners read the background information from the research article.
      - From the background, define the clinical question using PICO
        - P – patient or population
        - I – intervention being investigated
        - C – Comparison
        - O – Outcomes being measured
   2. Discuss the relevance of the article – use the appropriate worksheet as a tool.
   3. Review the methods section. Discuss the validity of the study – using the worksheet as a tool.
4. Review the result section
   - Utilize the appropriate worksheet as a tool to synthesize the results (and the faculty speaker notes)
     - Look for statistical significance with the results, utilizing the data provided
       - How large was the treatment effect
       - How precise was the treatment effect
       - convert data to user friendly data if possible (Number Needed to Treat)
     - Are the results clinically significant?
     - Are there other factors that could affect the outcome?

5. Discuss how to apply the evidence
   - Are the results clinically significance?
   - Can the results be applied to your patients?
   - Will the results change your practice?

6. Using the CEBM table, assign a Level of Evidence to the article (the PURLs article will have done this as well)

V. Tools available for the critical appraisal;
   - Worksheets on RCT studies, cohort trials, systematic reviews, diagnosis studies
   - Faculty speaker notes
   - PURLs article
   - EBM glossary of terms
   - CEBM table for assigning a LoE

Journal Club Steps

1. Obtain Journal Club Toolkit from the fpin.org Institute which will include:
   a. Journal Club Instructions (this form)
   b. Speaker Notes (Completed study template)
   c. Blank Study Template Form (based on type of study)
   d. Published PURL
2. Obtain the Original Article PDF (citation in the speaker notes) from your library.
3. Send Original Article PDF along with blank study template form to journal club participants
4. Review speaker notes, read original article and published PURL
5. Identify your journal club presenter and ensure they are prepared to lead participants through the study template form
6. Assist your presenter as needed through the journal club
7. Pass out the published PURL and compare result