Journal Club Presentation Outline

Your presentation should be done using the UCSD PowerPoint template approved by the UCSD Department of Anesthesiology and include the headings within this outline.

I. Introduction
   A. Study objective(s)/aim(s)
      1. Was the purpose of the study clearly stated?
   B. Hypothesis(es)
      1. Was the research question or hypothesis clearly stated?

II. Methodology/Study Design
   A. Design of the experiment/trial
      1. Was it a clinical trial, cohort, case-control, cross-sectional, or case-series?
   B. Population/sample
      1. What were the inclusion and exclusion criteria of subjects?
      2. Do these criteria create any limitations in the design data collection, or application/extrapolation of the results?
   C. Methodology/Study Design
      1. What was the process for subject recruitment?
      2. If not done randomly:
         a. Were the subjects appropriately representative of the population?
         b. How were subjects selected for the study to avoid bias?
         c. If historical controls were used, were methods and criteria the same for the experimental group, and were cases and controls compared on prognostic factors?
      3. If there was a control group, how is it chosen?
      4. Was there post data follow up? How many withdrew from the study, if any? Was subject withdrawal discussed?
      5. Did the authors explain or give a reference to any unusual methods used in the study?
   D. Outcome measures
      1. Were there multiple endpoints?
      2. Were subgroup analyses performed and, if so, were they reported appropriately?
   E. Statistical analysis
      1. Were the statistical methods used in the study specified in sufficient detail?
2. Is there a statement about the sample size or power? **This is especially critical in a negative study.**
3. Do the statistical tests answer the research question(s)? Were all relevant outcomes reported?
4. Were repeated measures made over time, and if so, were they analyzed appropriately?

### III. Results

A. Do the results relate to the research question(s) proposed in the study aims?
B. Were actual values reported (e.g., means, standard deviations, proportions), not just the results of statistical tests?
C. In paired designs, was the magnitude and range of the differences reported?
D. Were groups similar on baseline measured? If not, were appropriate analyses done to take differences into consideration?
E. Did the Figures and Tables present results clearly and in a meaningful way? How else would you have presented the data? Are there any other statistical test you would perform?

### IV. Conclusions/Discussion

A. Interpretation of results
   1. Were the questions posed in the study adequately addressed?
   2. Were the conclusions justified from the data?

B. Reflect on the clinical and statistical significance of results from the study.

C. Compare results from the study to those of similar studies performed.

D. Discuss study limitations
   1. Were there any shortcomings of the study and if so, were those addressed constructively? Did they provide or do you have any suggestions given for the future research?

E. Applicability of results
   1. Did the authors extrapolate the data? How would you extrapolate the data?