UMDNJ Anesthesiology Journal Club Curriculum

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Goals for Resident Education

1) Familiarize residents with classic papers in anesthesia
2) Familiarize residents with current controversies in anesthesia literature
3) Review concepts of study design and methodology, including potential limitations
4) Review concepts of statistical evaluation
5) Practice oral presentation skills
6) Use evidence based medicine to enhance patient care

Objectives

Medical Knowledge

CA-1
1) Identify for a given article:
   a. Author(s) and institution(s)
   b. Question asked and why.
   c. Methods utilized
   d. Endpoints measured
   e. Logic and conclusions
2) Define sensitivity, specificity, statistical significance, and power.

CA-2
1) Identify for a given article:
   a. Statistical method used, and appropriateness of use
   b. Potential sources of error or bias

CA-3
1) Evaluate the validity of a study
2) Compare and contrast study designs: between subjects, within subjects, repeated measures; parametric and non-parametric approaches.

Practice Based Medicine

CA-1
1) Able to correctly identify appropriateness of a given article for a clinical question

CA-2
1) Performs a literature search to answer a clinical question
2) Evaluates current practice in light of evidence
CA-3
1) Creates a clinical question and performs a literature search to answer the question, integrating it into the history of anesthetic practice
2) Evaluates appropriateness of evidence application to general practice of anesthesiology

**Professionalism**

CA-1
1) Attends at least 50% of journal clubs, excused by call or vacation requirements
2) Reads the articles prior to the meeting, and actively participates in discussion

CA-2
1) Attends at least 50% of journal clubs, excused by call or vacation requirements
2) Reads the articles prior to the meeting, and actively participates in discussion
3) Makes at least 50% accurate statements about article under review.

CA-3
1) Attends at least 50% of journal clubs, excused by call or vacation requirements
2) Reads the articles prior to the meeting, and actively participates in discussion
3) Makes at least 80% accurate statements about article under review.

**Interpersonal and Communication Skills**

CA-1
1) Demonstrates oral presentation skills by cogently presenting one paper per year based on a) author(s) and institution(s), b) question asked and why, c) methods utilized, d) endpoints measured, e) logic and conclusions

CA-2
1) Demonstrates oral presentation skills of CA-1 level + literature review relevant to current article. Present one professional seminar presentation of 20 minutes. Included will be CA-1 + a) statistical method used, b) appropriateness of statistics used, c) potential sources of error or bias.

CA-3
1) Demonstrates oral presentation skills of CA-2 level + evaluate the validity of a study.

**Curriculum**

A series of ten meetings will be held on the first Tuesday of each month, with the exception of July and January. The Director of Education and the Faculty Advisor may agree to reschedule for conflicts with academic and holiday schedules.

Each meeting will have a faculty Moderator and two to three residents assigned to present. This schedule will be arranged at the beginning of the year by the chief resident and the Faculty Advisor.

The first three meetings will be dedicated to reviewing the general principles of study design, statistical methods and sources of error. The papers will be chosen by the
Faculty Advisor for their appropriateness for these topics. Each resident delegated to present will be assigned a paper by the Faculty Advisor.

The middle three meetings will be dedicated to current controversies in Anesthesia. Interesting current topics in the literature will be discussed. These articles will be identified by the Faculty Advisor and Moderator, and then assigned to the residents involved to present.

The final four meetings will be dedicated to evidence based medicine, in which the delegated residents should create a clinical question based on their clinical experience and then perform a literature search to identify a paper that addresses their question. They will then present the question and paper that they identified.

The Moderator is to function as a facilitator for discussion during the actual journal club, but should also be available to assist the residents in formulating clinical questions or finding articles if necessary.

The chief resident will help create a schedule for residents and topics for the academic year. He/she will also serve as a resource for the presenters, to assist in question formulation, literature search and evaluation.

**Evaluation**

1) Attendance will be taken at each journal club and tracked by the education coordinator.
2) Evaluations will be performed by an attending faculty member and Advisor for purposes of constructive feedback to the presenter.
3) Resident evaluation of journal club will be performed by evaluations on a yearly basis.