

# Lecture summaries

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### **Scientific writing and Statistics**

This interactive workshop is designed to build comfort in scientific writing, evaluation of the literature, and basic statistics for veterinary emergency and critical care residents. It will focus on translating clinical uncertainty into answerable research questions, with an emphasis on hypothesis formulation and selecting appropriate study designs. Core statistical concepts commonly encountered in the veterinary literature will be discussed in a clinically relevant manner. By the end of the workshop, participants will have a structured approach to reading the literature, identifying strengths and limitations of study design and analysis, and determining how evidence should (or should not) influence clinical decision-making.

#### Learning goals

1. Formulate clear, testable research questions from clinical problems
2. Match research questions to appropriate study designs
3. Understand and interpret common statistical methods used in ECC literature
4. Apply critical appraisal skills to evidence-based patient care decisions