

## **DEN8290: Evidence-based Dentistry Seminars Fall 2021**

### **Course Description:**

This is an elective seminar course, which teaches students how to critically appraise different type of studies, how to make evidence-based decisions, and how to find evidence using existing databases and EBD resources.

DEN6001 is a prerequisite for this elective. The elective is available for 2DN, 3DN and 4DN students.

### **I. General Information**

Course Director: Jaana Gold

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Course Credits: 1

Semester: Fall

### **II. Course Goals**

Dentistry is a rapidly changing profession that requires lifelong learning. The technologies and methods learned in dental school rapidly become outdated as dental research continually discovers new treatment methods, materials and procedures. Clinicians must stay current with changing standards of clinical care. Evidence-based practice helps clinicians offer their patients the best available care by keeping up-to-date on the science of their profession. Evidence-Based Decision Making requires efficient searching of the scientific literature and the application of the formal rules of evidence in evaluating the clinical literature. EBD is a process for turning the clinical problems into questions, and then systematically rephrasing and evaluating of the research findings as a basis for making clinical decisions. It is important for practitioners to know where and how to access the evidence efficiently and how to read the evidence and literature.

This is an active hands-on seminar/workshop course, in which students learn to critically appraise different type of studies, to make evidence-based decisions, and learn to find evidence using existing databases and EBD resources. The ultimate goal is to motivate students to become sophisticated and motivated life-long learners.

### **III. Course Overview**

This course will use the workshop format, in which a small group of students and the course director will review the concepts of EBD, conduct database searches, and review different types of studies and articles using internationally validated CASP tools and available EBD resources and centers. This course will emphasize statistical

considerations and critical appraisal process to determine the quality and validity of the studies and reports. Students conduct independent reading and search in addition to seminar hours.

Additional course materials and videos are available on CANVAS E-Learning site.

#### **IV. Course Outline**

EBD concepts and critical appraisal tools

Database search and online resources

EBD guidelines

How to appraise and use article on Therapy - Randomized Clinical trial

How to appraise and use article on Harm – observational studies -Cohort

M4 How to appraise and use article on Harm – observational studies - Case-control

How to appraise and use on article about Diagnosis

How to appraise and use Systematic Reviews

How to appraise and use Meta-analysis

Clinical Practice Guidelines

Efficient search strategies

Practice

#### **V. Course Material**

Course material will be on CANVAS e-learning site

Articles will be accessed online (HSC library and other online resources)

#### **VI. Course Objectives**

Through this elective course, students will be able to:

1. Identify what constitutes evidence.
2. Identify valid and credible evidence.
3. Identify distinguishing characteristics of different research methods, study designs and publications - Randomized Clinical Trials (RCTs), Systematic Reviews (SRs), Meta-Analysis (MA), observational studies (case-control, cohort), EBD guidelines, critical summaries.
4. Identify levels of evidence on different study designs and resource.
5. Identify scientific sources of evidence to use in clinical decision making.
6. Identify online EBD resources.
7. Critique different study methodologies, such as randomized controlled trials and systematic reviews, using international appraisal guidelines and evaluation tools.
8. Enhance search strategies.
9. Explain common statistical measures in reporting outcomes.
10. Identify the clinical and statistical difference.
11. Develop a plan to incorporate EBD into clinical practice.

#### **VIII. Evaluation**

This course is graded Satisfactory (S) or Unsatisfactory (U).

Students on intermural and extramural rotations count as an excused from the seminar.

All other students must get prior permission from the Course Director to be excused from a seminar.

An S grade is awarded to students which participate in 10 of the 14 seminars and complete the associated assignments/worksheets for these seminars.

A U grade is awarded to students that participate in < 10 seminars.

Elective Course Remediation: If a student receives a U grade in the course they must meet with the Course Director and participate in an additional EBD assignment which they must pass to receive a S grade.

### **IX. Administrative Practices**

Administrative practices for all UFCD courses are universally applied. Exceptions to or deviations from these practices are stated in the individual syllabi by the course director. When not individually stated in the syllabus, course administrative practices default to those identified under "Course Policies" on the DMD Student Website:  
<https://dental.ufl.edu/education/dmd-program/course-policies/>