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| Macroperspective on Evidence-based Practice | - Understand the major institutions and agencies concerned with maintaining the quality and safety of health care in the US and abroad.  
- Understand the meaning of evidence-based practice and its role in quality and safety  
- Understand the regulation of the pharmaceutical and medical device industry | - Review the major quality and safety regulatory institutions (JCAHO, FDA) and the institutions that support their mission (AHRQ, NQF)  
- Review the major payors (CMS, private insurance) and their relationship to evidence-based practice  
- Review the major US and international organizations involved in assessing health care interventions (AHRQ, Cochrane, HTAi) | -Recommended readings in syllabus (Section 2) |
| Microperspective on Evidence Based Practice | - Understand the current role of Academic Health Centers and their relationship to evidence-based practice  
- Understand the role of the Center for Evidence-based Practice within UPHS | - Review the reimbursement of AHCs and their current challenges  
- Review the basic structure of UPHS and the entities within it that support safety and quality  
- Review the role and processes of the Center for Evidence-based Practice at UPHS | -Review CEQI, Risk, Regulatory, CEP figure  
- Review CEP figure  
- Recommended readings in syllabus (Section 3) |
| Performing an Evidence-based Assessment I | - Understand basic concepts in systematic review and meta-analysis  
- Understand the process of performing a systematic review  
- Understand how to frame a question for a systematic review  
- Understand how to write a protocol for performing a systematic review  
- Understand the nature of the evidence-base for clinical questions of interest | - Initiate the exploratory literature search  
- Frame the question of interest in an evidence-based format  
- Write a protocol for the performance of a systematic review | - Complete exploratory literature search to prepare for the writing of a protocol  
- Complete the protocol for the systematic review  
- Recommended readings in syllabus (Section 4) |
| Biomedical Library Literature Search Session | - Understand how to do a systematic literature search about an issue  
- Understand the major databases available to search for good evidence  
- Understand how to save, export, and manage the results of searches  
- Understand how to write and cite | | -Review: Systematic Reviews by Mulrow, Chapters 7-9  
- Recommended readings in syllabus (Section 4) |
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| Critical Appraisal          | - Understand the role of different study designs in medical decision-making  
- Understand the “hierarchy of study designs” and its limitations  
- Understand critical appraisal of randomized clinical trials and systematic reviews  
- Understand the importance of clinical trials to drug approval and regulation  
- Understand the standards for reporting of randomized clinical trials and systematic reviews  
- Understands the role and limitations of observational studies | - Review study designs and their place in building medical knowledge  
- Review the standardized format for appraising clinical trials  
- Review advanced concepts for evaluating clinical trials  
- Review the CONSORT and QUORUM  
- Review the assessment of observational studies | - Review Fletcher and Fletcher Chapters 1, 8, 10  
- Recommended readings in syllabus (Section 5, 6, 7, & 8) |
| Performing an Evidence-based Assessment II | - Understand how to perform a systematic literature search in reproducible format  
- Understand how to select studies to include in a systematic review  
- Understand how to assess the quality of studies to include in a review  
- Understand how to abstract data from studies for a review | - Perform a reproducible and comprehensive literature search  
- Select studies for inclusion based on pre-defined criteria  
- Abstract the appropriate data from each study for inclusion in the review  
- Assign a quality score for each study included | - Complete the literature search  
- Select studies to be included in the review  
- Abstract the data from the included studies  
- Assign a quality score for each study  
- Recommended readings in syllabus (Section 5, 6, 7, & 8) |
| Microsoft Access Work Session | - Understand how to abstract data from clinical studies and enter it in Microsoft Access | - Abstract data and enter in Access database | - Database Management Papers |
| Performing an Evidence-based Assessment III Meta-analysis | - Understand the major features and limitations of meta-analysis  
- Understand basic statistical concepts in the performing of a meta-analysis  
- Understand how to use a statistical software package to perform meta-analysis  
- Understand how to apply meta-analysis results to clinical medicine | - Review meta-analysis concepts and principles  
- Review basic statistical concepts in meta-analysis  
- Review advanced concepts in the clinical application of meta-analysis | - Recommended readings in syllabus (Section 5, 6, 7, & 8) |
| Meta-analysis Work Session | - Understand how to practically perform a meta-analysis  
- Understand how to judge the quality of the results of a meta-analysis  
- Random vs. Fixed  
- Heterogeneity  
- Sensitivity Analysis | - Review the steps necessary to perform a meta-analysis  
- Perform a meta-analysis of data  
- Assess the strengths and limitations of the results of the meta-analysis | - Recommended readings in syllabus (Section 5, 6, 7, & 8) |