

PHAR ### - Epidemiology and Medical Evidence (3 credits)

Spring 2011

Content Areas and

Learning Outcomes

Revised 10/26/09

Content Areas Mapped to ACPE Standards 2007 Appendix B

Pharmacy Practice and Pharmacist-Provided Care

- monitoring for positive and negative drug therapy outcomes for population-based research [*introduced in Professionalism, Ethics, & Pharmacy Practice*]
- evidence-based practice and decisions [*introduced in Context of Health Care and Professionalism, Ethics, & Pharmacy Practice*]

Drug Information

- the ability to judge the reliability of various sources of information
- technology of drug information retrieval for quality assurance [*introduced in PP&T*]

Literature Evaluation and Research Design

- fundamentals of research design and methodology
- principles of evaluation of the primary literature [*introduced in Context*]
- practical implications of the primary literature [*introduced in Context*]
- principles of research design and analysis in practicing evidence-based pharmacy

Learning Outcomes Mapped to School's Terminal Performance Outcomes

TPO 1: *Participate in the development of patient-specific therapeutic plans*

Describe appropriate sources of information.

Analyze research findings and effectively communicate them at appropriate levels for patients' healthcare professionals.

Evaluate primary literature to assist policy makers other health care providers to maximize decisions regarding drug therapy. [*introduced in Context of Health Care and Professionalism, Ethics, & Pharmacy Practice*]

Demonstrate proficiency in searching the biomedical literature using a variety of online databases.

TPO 6: *Educate patients regarding patient-specific therapeutic plans*

Evaluate and compare information from various sources in order to determine reliability, validity, accuracy, timeliness, and point of view or bias.

Analyze research findings and effectively communicate them at appropriate levels for patients and healthcare professionals.

Formulate focused queries, acquire the best available, evaluate the evidence, and apply clinical expertise in using the evidence in providing patient-centered care.

TPO 9: *Maximize appropriate drug use behaviors*

Analyze and evaluate relevant data.

Assess outcomes continuously as a dimension of optimal medication therapy management [*introduced in Context of Health Care*]

TPO 11: *Answer patient-specific questions*

To critically review a medical manuscript by identifying strengths and weaknesses in its design, analysis, and interpretation. [*introduced in Context of Health Care and Professionalism, Ethics, & Pharmacy Practice*]

TPO 15: *Participate in health policy decision-making processes related to drug use*

To calculate common measures of disease burden and comparative risk (e.g., incidence, prevalence, mortality rate, relative risk, odds ratio).

To explain the scientific process of generating knowledge and be able to describe how this process relates to our knowledge of pharmaceuticals. [*introduced in Context of Health Care*]