

**1. Overview of the U.S. Healthcare System:** Overview of the history and development of the U.S. Healthcare system.

Objectives:

By the end of this session the student should understand:

1. The history of the U.S. health system including:
2. Accomplishments of U.S. health care in the 20th century,
3. Current challenges facing America's health care system,
4. Future challenges to the health care system,
5. The role of prevention in meeting the health needs of the U.S. population.

**2a. Models of Health Care: U.S.:** Overview of Course. Overview of the structure and function of the U.S. healthcare system. .

Objectives:

By the end of this session the student should understand:

- 1 The overall structure of the U.S. healthcare system.
2. How healthcare is meant to be delivered.
3. How the healthcare system functions.
4. Challenges facing American medicine in the 21<sup>st</sup> century.

**2b. Medical Informatics Workshop (2 hours):** Presents an overview of skills needed to search for medical literature and use Endnotes methods.

**Objectives:**

By the end of this session the student should understand:

1. The basic skills needed to retrieve medical literature from web-based sources
2. The basic skills needed to use Endnotes programming

**2c. Models of Health Care: England, Italy, Canada, Germany, Japan:** This module will introduce students to the structure of several other healthcare systems.

**Objectives:**

By the end of this session the student should understand:

1. The basic structure of the healthcare delivery system in several other countries.

2. The strengths and weaknesses of these different types of delivery systems.

**3. Public Health and Medicine:** Presents an overview of the workings of the public health system and its interactions with the private sector of medicine in the US.

**Objectives:**

By the end of this session the student should understand:

1. The mission of public health in the U.S.
2. How the public health system works.
3. The ten essential functions of the public health system.
4. How public health and private practice of medicine complement each other.

**4. Access to Healthcare --** Overview of the history and development of the Florida Healthcare system; review of access to health care and its relation to health policy and use of health services.

**Objectives:**

By the end of this session the student should understand:

1. The major barriers to access to quality health care services.
2. The concepts and causes of "underinsurance".
3. The state children's health insurance program

**5. Overview of Prevention:** Promotion of good health and prevention of illness strategies and models; relation to epidemiology; case example.

**Objectives:**

By the end of this session the student should understand:

1. The types of prevention
2. The types of preventable deaths in the U.S.
3. Causes of preventable deaths in the U.S.
4. The trends in preventative services
5. Major domains in prevention
6. Cardiovascular disease as a preventable illness
7. Tobacco's role in cardiovascular disease

**6. Epidemiology/Biostatistics – Part I :** Review of principles and concepts in epidemiology and biostatistics; case examples.

Objectives:

By the end of this session the student should understand:

1. Basic knowledge of descriptive and inferential statistical concepts:
2. The prevalence of phenomena in a research sample and corresponding population estimates
3. The presence and magnitude of statistical associations among study variables
4. To apply this knowledge to the critical evaluation of empirical research literature.

**7. Epidemiology/Biostatistics – Part II:** Review of principles and concepts in epidemiology and biostatistics; case examples.

Objectives:

By the end of this session the student should understand:

1. Basic knowledge of descriptive and inferential statistical concepts:
2. The prevalence of phenomena in a research sample and corresponding population estimates
3. The presence and magnitude of statistical associations among study variables
4. To apply this knowledge to the critical evaluation of empirical research literature.

**8. Introduction to Healthcare Financing:** Overview of health care financing mechanisms and costs; impact upon access and quality; federal, state and private reimbursement mechanisms.

Objectives:

By the end of this session the student should understand:

1. The principal sources and types of health insurance
2. Changing trends in health insurance in the U.S.
3. The basics of Medicare
4. The basics of Medicaid
5. Cost control strategies in health care

**9. Managed Care:** History and development of managed care; organization, fundamentals and practices of managed care organizations; current developments in the managed care industry and impact on providers and consumers of health care services

Objectives:

By the end of this session the student should understand:

1. Why managed care has developed as it has in the U.S.
2. How to distinguish the differences between managed care and other forms of health care delivery.
3. How to describe different models of managed care.
4. The incentives and disincentives in capitated payment systems.
5. How HMOs are changing, the pros and cons of organizing health care through HMOs, and variations in HMO performance.

**10. Medicare:** Origin and structure of Medicare; eligibility and coverage; changes and challenges; future directions and options.

Objectives:

By the end of this session the student should understand:

1. The basic structure of Medicare including Parts A, B, and C.
2. The funding issues related to Medicare.
3. The recent changes to the Medicare system (2003).

**11. Medicaid:** Origin and structure of Medicaid; eligibility and coverage; state options; changes and challenges; public financing of long-term care options; impact on growing aging population on Medicaid long-term care financing and resources.

Objectives:

By the end of this session the student should understand:

1. The general framework of Medicaid, including which groups are generally covered.
2. How provision of Medicaid services occurs.
3. The financing pressures on the Medicaid system.
4. The challenges of access to Medicaid for covered individuals.

**12. HIV/AIDS:** Challenges that HIV/AIDS presents to the health care system; needs of people infected with HIV, as well as accessibility to care, cost of care, and quality of services.

Objectives:

By the end of this session the student should understand:

1. The epidemiology of the HIV/AIDS epidemic- particularly in the U.S.
2. How public policies impact on the available services to HIV/AIDS patients

**13. Healthcare Quality – Psychosocial Issues:** Description and discussion on the psychosocial aspects of human behavior related to medical errors and patient safety.

**Objectives:**

By the end of this session the student should understand:

1. The systemic nature of medical errors in our healthcare system.
2. Be familiar with both Institute of Medicine (IOM) reports on healthcare quality.
3. Be cognizant of factors that contribute to the likelihood of errors.
4. Identify potential medical error interventions and list advantages and disadvantages of each.
5. Realize the challenges of promoting patient safety in various aspects of care including transitions of care.

**14. Healthcare Quality – Interventions:** A critical analysis of the interventions which have been developed to prevent medical errors.

**Objectives:**

By the end of this session the student should understand:

1. The systemic nature of medical errors in our healthcare system.
2. Be familiar with both Institute of Medicine (IOM) reports on healthcare quality.
3. Be cognizant of factors that contribute to the likelihood of errors.
4. Identify potential medical error interventions and list advantages and disadvantages of each.
5. Realize the challenges of promoting patient safety in various aspects of care including transitions of care.

**15. Healthcare Quality – Case Studies on Quality:** Use of cases in patient safety to illustrate examples of medical error and reduction techniques.

**Objectives:**

By the end of this session the student should understand:

1. The systemic nature of medical errors in our healthcare system.
2. Be familiar with both Institute of Medicine (IOM) reports on healthcare quality.
3. Be cognizant of factors that contribute to the likelihood of errors.
4. Identify potential medical error interventions and list advantages and disadvantages of each.
5. Realize the challenges of promoting patient safety in various aspects of care including transitions of care.

**16. Healthcare Quality – Measurement and Quality Report Cards:** Use and misuse of state and national quality measurements and their impact on quality improvement and error reduction.

**Objectives:**

By the end of this session the student should understand:

1. The systemic nature of medical errors in our healthcare system.
2. Be familiar with both Institute of Medicine (IOM) reports on healthcare quality.
3. Be cognizant of factors that contribute to the likelihood of errors.
4. Identify potential medical error interventions and list advantages and disadvantages of each.
5. Realize the challenges of promoting patient safety in various aspects of care including transitions of care.

**17. Legal Aspects of Medicine:** Overview of medical malpractice; tort system; general legal issues; health policy discussions concerning a no-fault system.

**Objectives:**

By the end of this session the student should understand:

1. Essential elements needed for a tort cause of action
2. Essential elements of informed consent
3. Basic findings of the Harvard Medical Practice Study and its implications for medical liability and tort actions

**19a. Issues in Medical Licensure and Discipline/Professionalism:** This module will be conducted in conjunction with the Florida Board of Medicine. It will focus on medical licensure requirements and disciplinary actions in order to promote professionalism.

**Objectives:**

By the end of this session the student should understand:

1. Some of the most common issues related to the licensure and discipline of physicians in Florida.
2. How they can establish high standards of professionalism by knowledge of and adherence to state guidelines for physicians.

**19b. Evidence-based Medicine and Information Mastery – Part 1:** Principles and procedures for applying evidence-based medicine.

Objectives:

By the end of this session the student should understand:

1. Define evidence-based medicine
2. Demonstrate an ability to formulate a patient-oriented clinical question from a clinical scenario.
3. Describe appropriate search strategies for finding answers to clinical questions.
4. Discuss key elements of the critical appraisal of a medical article.
5. Discuss how the findings of their search would be applied to the care of a patient.

**20. Evidence-based Medicine and Information Mastery – Part 2:** Principles and procedures for applying evidence-based medicine.

Objectives:

By the end of this session the student should understand:

1. How to review recent reports on breast mammography to show both the strengths and limitations of EBM

**21. Evidence-based Medicine: Focus on Practicum:** Principles and procedures for applying evidence-based medicine; Use of an recent article to highlight how EBM principles can be used to critique literature.

Objectives:

By the end of this session the student should understand:

1. Recommended guidelines for an EBM-based critique of peer-reviewed medical literature.

**22. Bioterrorism – Part 1:** Overview and case example and discussion of bioterrorism issues and responses (particularly focused on anthrax and smallpox).

Objectives:

By the end of this session the student should understand:

1. The historical aspect of bioterrorism
2. The clinical aspects of bacteriologic agents focusing particularly on anthrax and smallpox.

**23. Bioterrorism – Part 2:** Continuation of bioterrorism issues (toxins and chemical).

Objectives:

By the end of this session the student should understand:

1. Basics of biological toxins: botulinum and ricin
2. Chemical weapons: mechanisms of action, clinical symptoms, and treatment.

**24. Bioterrorism – Part 3 and Disaster Preparedness:** Continuation of bioterrorism issues (nuclear/radiological) and concepts of preparedness for clinicians in disaster situations.

Objectives:

By the end of this session the student should understand:

1. The basics of radiological and nuclear agents.
2. Clinical symptoms from radiological events.
3. Preparedness for physicians in the community.
4. The State of Florida's system for evaluating possible radiological and nuclear events.

**25. Complementary and Alternative Medicine:** Overview of the use of complementary and alternative medicine and the impact on the health care delivery and health policy.

Objectives:

By the end of this session the student should understand:

1. The definition and scope of CAM and integrative medicine.
2. The trends in the American public's use of CAM.
3. The need for EBM to bring CAM into the "mainstream".
4. The differences between licensing and credentialing.
5. The basics of ethical issues and liability concerns raised over CAM for physicians.

**26. Spirituality in Medicine:** Discussion of the impact that spirituality has on the practice of medicine.

Objectives:

By the end of this session the student should understand:

1. The history of the church and health care.
2. Studies which look at health outcomes in religious/spiritual individuals.
3. The challenges facing the health care system in the aging of the population and ways in which faith-based organizations can provide health services.

**27. Demographics of Aging:** Overview of trends and conditions affecting the aging population; challenges that the health care system faces in the delivery of an increasingly broad array of medical services to the aging population; impact of patient needs and rising costs of care

Objectives:

By the end of this session the student should understand:

1. The changing demographics of the U.S. population as it pertains to the elderly
2. The effect of this change on the labor/workforce market
3. The effect of the changing age demographic on types of common medical conditions

**28. Long-term Care:** Overview of the diverse array of long-term care services presently provided in institutional, community, and home-based settings; impact of long-term care needs of older adults in the 21<sup>st</sup> Century.

Objectives:

By the end of this session the student should understand:

1. The changing long-term care demographics in the U.S. and Florida
2. The major types of financing for long term care
3. The locations and types of long term care facilities and some of the challenges they face in employment, litigation, etc.

**29. End-of-Life Care:** Discussion of the health policy implications of end-of –life care challenges.

Objectives:

By the end of this session the student should understand: :

1. The laws and rules in Florida that relate to end-of-life care (particularly Florida Statutes. 765 and 401).
2. Advanced directives
3. Do not resuscitate orders

**30. Mental Health System:** Overview of the historic trends and forces affecting the mental health system; health policy issues relating to financing and delivery of mental health services; review of epidemiological studies in mental health.

Objectives:

By the end of this session the student should understand:

1. The major types of mental disorders
2. The proportion of patients (adults and children) diagnosed and treated by the mental health system
3. The burden and costs of mental disorders
4. The people served by Florida's mental health system

**31. Rural Health.** Overview of the particular policy issues affecting patients and providers in rural communities.

**Objectives:**

By the end of this session the student should understand:

1. The history of policies in the U.S. related to rural health programs.
2. The particular challenges that face patients and providers (particularly physicians) in rural areas, and how these are related to policies at the state and federal level..

**32. Review of Course:** Review of year course material in preparation for exam.

Objectives:

To give students a sense of the level of review needed in health issues presentations to prepare for the comprehensive exam.

Note: Given the amount of material covered over the course of a year, this review does not cover all substantive material that will be tested on.

### **34. Review of biostatistics – Part 1:** Review of Year II biostatistics

Objectives:

This session is to review basic concepts of statistics including:

1. Types of variables
2. Population distributions
3. Tests of quantitative and qualitative variables
4. Predictive values
5. Odds ratios and Relative risks

Both this week and the following week (Part 2) will consist of problem-solving exercises that are to be completed before coming to class. Questions will be answered and further examples given during the class period.

### **35. Review of biostatistics – Part 2:** Review of Year II biostatistics

Objectives:

This session is to review basic concepts of statistics including:

1. Types of variables
2. Population distributions
3. Tests of quantitative and qualitative variables
4. Predictive values
5. Odds ratios and Relative risks

Both this week and the preceding week (Part 1) will consist of problem-solving exercises that are to be completed before coming to class. Questions will be answered and further examples given during the class period.