Objectives

• Review the reasons why TCOM’s pre-clinical curriculum was modernized
• Appreciate the methodology of TCOM’s application based curriculum
• Understand that competency is problem and task specific

Innovative Focus—Application

Acquire

• Declarative knowledge obtained prior to coming to class
  • Directed Student-Self Study Assignments

Apply

• Proceduralize knowledge in class and small groups
  • MLM/PTLM
  • Problem and task specific exercises
Why Modernize

- Larger class from 120 to 230
  - More small group facilitation incorporating reflection to support large classroom objectives
- Maximize integration of TCOM competencies around Patient Presentations
- Increase the number of patient presentations approximating the 120 presentations identified by NBOME

TCOM Competencies

- Medical Knowledge
- Patient Care
- Osteopathic Principles and Practice
- Interpersonal & Communication Skills
- Professionalism
- Systems-Based Practice
- Practice-Based Improvement
- Wellness & Prevention
What is Competence

- Its Problem and Task Specific
- We emphasize performance of tasks as the critical outcomes of this curriculum. For each Patient Presentation (problem), the physician should be able to:
  - Diagnose
  - Treat
  - Manage
  - Explain

Example of Patient Presentation: Monoarticular Arthropathy

- Monoarticular Arthropathy
  1. Non-inflammatory
     - Osteoarthritis
     - Trauma
     - Osteonecrosis
     - Benign Tumor (Osteochondroma, Osteoid Osteoma, Pigmented Verruciform Synovitis)
     - Malignancy (Osteosarcoma, Ewing's, Multiple Myeloma)
     - Amyloid (rare)
  2. Inflammatory
     A. Crystal-Induced Arthritis
        - Gout
        - Pseudogout
     B. Infectious
        - Non-gonococcal bacteria
        - Gonococcal
        - Lyme disease
        - Mycobacterial/VIH (HIV, Hepatitis B/Fungal)

Pre-Clinical Curriculum in 3 Parts

- Three parts are encompassed in the first two pre-clinical years
  - Fundamentals of Health
  - Fundamentals of Disease and Treatment
  - Patient Presentations
## Fundamentals of Health

### Year 1

**A prelude to Patient Presentation**

The critical issues addressed are how the body functions in Normal Health, and what scientific findings can be applied to assist patients in maintaining health and preventing disease.

## Fundamentals of Disease and Treatment

### Year 1

**General pathological causes of disease**

- Cancer
- Infection
- Inflammation
- Tissue injury
- Thromb/Emboi

## 100+ Patient Presentations

### Year 2

Focus is on Patient Presentations caused by diseases.

- Covers approximately 1,000 diseases, typically as 6-12 common and/or important causes of any particular patient presentation.

### Patient Presentation

- New Onset Patient Complaint
- Abnormal Laboratory
- Wellness, vaccination etc.
Format of Patient Presentation Courses

Educational Design

- Information acquisition
  - Directed self study – no lectures
- Large Classroom
  - Application opportunities with explanation & clarification
- Small Group Activities
  - Facilitated Small-Groups Learning Modules
- Clinical Skills (laboratory & experiential simulation)
- Tight Integration of OMM and MP with Systems

OMM/OPP

- The cognitive knowledge portion of OMM is tightly integrated into Systems Courses. Patient Presentation portion stresses use of OMM/OPP in
  1. Differential diagnosis
  2. Treatment/Management
  3. Explanation
- Questions covering these components are included as part of the Systems Courses exams

UNT HEALTH
Medical Practice Course

- Focused on skill development inclusive of all Competencies
  - Medical Knowledge
  - Patient Care
  - Osteopathic Principles and Practice
  - Interpersonal & Communication Skills
  - Professionalism
  - Systems-Based Practice/PE/Community Resources
  - Practice-Based Improvement/Reflection
  - Wellness & Prevention
- Aligned with Systems in FOH/FODT and Patient Presentation
- OSCE/Standardized and real patients/Simulation lab

Assessment

- Embedded Quizzes based on DSA material
- Integrated computerized exams in COMLEX form
- Objective Structured Clinical Exams
- Comprehensive Basic Science Exam
- COMLEX/USMLE exams

Summary

- Modernization is never complete
- Our Academy of Medical Educators remains committed to applying learning science theory towards this end

Thank You