NUR 211
Concept: Infection
Exemplar: Tuberculosis

Description: This module describes the concept of infection as it relates to tuberculosis. Emphasis is placed on disease transmission, treatment, epidemiology and case management of chronic illness. The module is for senior level nursing students in NUR 211 and builds on previous infection concept learning including nosocomial, pneumonia and MRSA.

Learning Outcomes:

Upon completion of this module the student will be able to:

- Describe methods of transmission and containment of mycobacterium tuberculosis, including aerosolization and isolation.
- Relate the incidence and prevalence of tuberculosis (TB).
- Describe diagnostic testing used for TB and differentiate between TBI (latent) and TBII (active).
- Describe symptoms of active TB infection.
- Describe treatment options and medications for TB infection, including DOTS (directly observed treatment, short course).
- Identify nursing interventions and teaching for home care patients with TB.

Learning Resources:

Text

Articles

Websites:

Videos:
1. YouTube: Tuberculosis (Music video created for biology class-speaks to public health management and completing medication regimen.)
   http://video.google.com/videoplay?docid=-7806626906690703960&q=tuberculosis&total=728&start=0&num=10&so=0&type=search&plindex=8

2. YouTube: A Permanent Evil (Music video speaks to symptoms of TB and its infectious spread and mutation.)
   http://video.google.com/videoplay?docid=-8916436004229237545&q=tuberculosis+permanent+evil&total=1&start=0&num=10&so=0&type=search&plindex=0

   Guest speaker: Department of Public Health RN from local office

**Learning Activities:**
- Case studies
  1. Active TB patient with negative cultures 2 months into treatment
  2. Case management of HIV patient with TB
  3. DOTS planning for patient with limited access to health care resulting in poor medication compliance

- Clinical
  1. Fit testing of HEPA masks and negative pressure rooms

**Evaluation:**
- Summative testing
- Clinical performance evaluation
- TB teaching portfolio
- Analysis of local TB epidemiological data