

## **165:197** International Development

### **Section # 005:** Observational Learning in Hospital Settings in India

Instructor: Janine Kelly, Senior Physical Therapist ([Janine-kelly@uiowa.edu](mailto:Janine-kelly@uiowa.edu))

Program Coordinator: Prof. R. Rajagopal ([r-rajagopal@uiowa.edu](mailto:r-rajagopal@uiowa.edu))

December 27, 2011 – January 15/16, 2012

## **SYLLABUS**

**Introduction:** This course is designed primarily for University of Iowa and Indian students planning to work in a medical setting in their professional career. Classroom time will be spent discussing clinical observations made during visits to hospitals, medical clinics, etc. Many discussions will be led by students. This seminar course will explore the medical issues facing the country of India. The main objectives of this course are to:

1. Prepare students for the practical issues they will face on a day-to-day basis working in hospital and/or clinical settings.
2. Provide a supportive environment to analyze observations made in clinical settings.

**Goals:** Students who successfully complete this course will be able to meet the following overall objectives:

1. Review a medical chart and demonstrate the ability to obtain pertinent information.
2. Demonstrate how to document findings from a clinical evaluation.
3. Describe and analyze physiological responses during progressive resistance and endurance exercise.
4. Critically evaluate and integrate principles of exercise physiology to health promotion and disease.
6. Describe how the structure of the cardiovascular and pulmonary systems relates to function.
7. Perform a history and physical exam and discuss findings.
8. Describe the pathophysiology and clinical manifestations of common diseases/disorders.

**About the Instructor:** Janine Kelly is a senior physical therapist at the University of Iowa Hospitals and Clinics. She has 21 years of experience working with inpatients and outpatients in the areas of pediatrics, cardiopulmonary rehab, and the surgical intensive care unit. She has been an adjunct professor in the College of Medicine since 2007. She has taught Cardiopulmonary Therapeutics, Pharmacology in Physical Therapy, and Health Promotions and Wellness. She is a board certified Cardiopulmonary Certified Specialist through the American Physical Therapy Association.

**The Audience:** This 3 Semester Hour seminar course is offered to UI students interested in any medical field and interested Indian students (social work, physical therapy, occupational therapy, physician assistants, medical doctors, respiratory therapists, speech language pathologists).

**UI Participants:** This is a 3 S. H. credit seminar course for UI undergraduate and graduate students with an interest in working in medical fields, both in national and international contexts. All participants will be under the supervision of Professor Kelly for the entire duration, from December 27, 2011 to January 16, 2012. The requirements for receiving 3 semester hours of credit would include readings, journal entries, discussions, hospital/clinical observations and seminar participation in India, a mini-presentation in India and participation in a seminar at the UI on return during Jan/February of 2011.

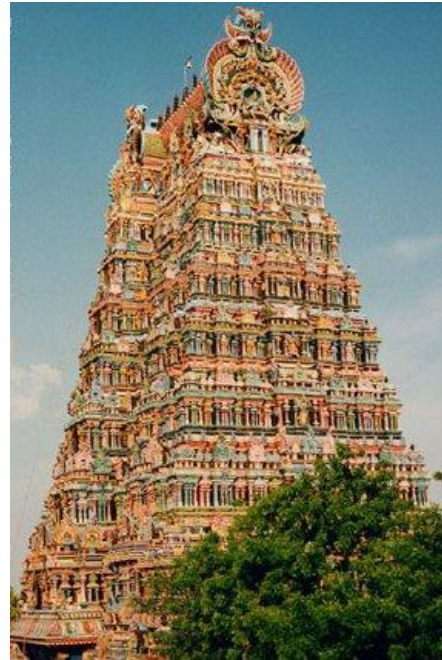
**Partner Organizations in India:** Our primary partner organization in India will be the Meenakshi Mission Hospital and Research Center (MMHRC), which provides special outreach to the poor. The Meenakshi Mission Hospital has 43 specialties including pediatric oncology, palliative care and hospice, cardio-thoracic and vascular surgery, cardiology, physical medicine and rehabilitation, accidents and emergency care, telemedicine, health camps for poor children, and many others. Our group will work closely with Mr. P. Ganesan, Senior Physical Therapist and the entire staff of the department of physical medicine and rehabilitation (PM & R) at MMHRC.

# Meenakshi

- Hospital named after goddess Meenakshi, wife of Lord Shiva



Source: UI Medical Team of 2008-09



The PM & R department is well known for its extended services rendered to neuro patients with head injuries, stroke, and paralysis & early ambulatory care. The department also renders services to General Medicine, General surgery, Urology, Gastroenterology, Dermatology, Diabetology, Nephrology, and Oncology departments. The department with its well structured orthotic unit provides well-contoured orthoses, braces & calipers, limb fitting & adequate training to amputees so that they can lead a successful and independent life. The department also provides pre and post-operative physio-care to the cardio-thoracic surgery patients to bring early ambulization.

**Written Assignment:** You are asked to write a case study based a patient you observed. The case study is due on the last day of class.

**Contacting me:** My office at the University of Iowa is 0733Z JPP, UIHC, Iowa City, Iowa, 52242. My e-mail address is [janine-kelly@uiowa.edu](mailto:janine-kelly@uiowa.edu).

**Students with disabilities:** I would like to hear from anyone who has a disability that may require some modification of the seating, testing, or other class requirements so that appropriate arrangements can be made.

**Respect for diversity:** It is my intent that students from all diverse backgrounds and perspectives be well-served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource, strength, and benefit. It is my intent to present materials and activities that are respectful of diversity: gender, sexual orientation, disability, age, socioeconomic status, ethnicity, race, culture, perspective, and other background characteristics. Your suggestions about how to improve the value of diversity in this course are encouraged and appreciated.

**Finally:** Course requirements include readings, discussions, field work, a final presentation in India and a return presentation at the UI (for UI students). Within six weeks of their return to the United States, all UI students and faculty will actively participate in a forum allowing participants to share their experiences in India with the UI community. Please keep in mind that in our travel, access to reliable computers may be limited.

## **COURSE SCHEDULE**

### **DATE**

December 29, 2011 to January 14

### **Topics**

- Introduction to the Course
- Preparing for observational learning
- Review a medical chart and demonstrate the ability to obtain pertinent information.
- Perform a history and physical exam and discuss findings.
- Demonstrate how to document findings from a Clinical evaluation.
- Describe and analyze physiological responses during progressive resistance and endurance exercise.
- Design an individual exercise prescription to improve Health through improved muscle strength, endurance, flexibility, and/or cardio-respiratory fitness.
- Describe how the structure of the cardiovascular and Pulmonary systems relates to function.
- Describe the pathophysiology and clinical manifestations of common disorders/diseases in the areas of cardiology, pulmonary/respiratory, obesity, neurology/neurosurgical, orthopedics, etc.
- Discuss intensive care unit topics including pharmacology, diagnostic interventions, mechanical ventilation, and mobilization of patients.
- Discuss the role of rehabilitation in restoring patient to optimal functional mobility.

