Course Description

- This lecture presentation focuses on physiologic and neuroendocrine changes specific to the elderly that influence their response to drugs, and the impact of these changes may have on function and drug induced frailty.

- Pharmacological interventions will be reviewed from a systems based perspective.

- Content includes the effect of drug actions on the major body systems, including mechanisms of therapeutic and adverse effects, problems of drug interaction, and variables that modify drug effects.

- The focus will be on drugs and drug regimes that are commonly used to treat cardiovascular, neuromuscular, musculoskeletal, gastrointestinal, cognitive, and other pathological conditions that affect the elderly.

- The effects that specific drugs have on function and on rehabilitation interventions will be discussed.

- Problems associated with nutrition and drug use will be covered, including dehydration.

- Drug misuse and abuse in the elderly will be presented.

- Patient case studies will be introduced as examples of drug response and drug interactions with other medications, nutrients, and metabolism.

Course Objectives

At completion of the course participants will:

1. Describe the variations in pharmacodynamics and pharmacokinetic properties with aging.

2. Develop an understanding of how pharmaceuticals can lead to frailty from a systems approach.

3. Identify commonly prescribed drugs, their mechanism of action and intended purpose.


5. Develop an advanced knowledge of how the anatomic, physiologic, motor control, and functional mechanisms of aging are affected by drugs and may lead to frailty.

6. Describe the concepts of tolerance, withdrawal, psychological addiction and physical dependence on drugs.

7. Gain knowledge of drug induced adverse effects that impact rehab interventions.

Schedule

**Friday**

4:30 - 6:30 General principles of geriatric pharmacology: Pharmacotherapy in clinical care of the elderly

6:30 - 7:00 Dinner (provided)

7:00 - 9:00 Drug classes commonly prescribed in the elderly

**Saturday**

8:00 - 10:00 Continental breakfast (provided)

Pharmacotherapeutic drug regimes in the elderly: benefits and adverse effects

10:00 - 10:15 Break

10:15 - 11:45 Drug misuse and abuse in the elderly

11:45 - noon Wrap-up/questions & answers

Jennifer M. Bottomley, PT, MS, PhD holds a BS degree in Physical Therapy from the University of Wisconsin-Madison and an MS degree in Physical Therapy from the MGH Institute of Health Professionals in Boston, MA. She has a combined intercollegiate doctoral degree in Gerontology (U of Massachusetts) and Health Science and Service Administration (Union Institute & University), and a second PhD from The Union Institute & University in Health Service Administration, Legislation, and Policy Management, with a specialty in Gerontology.

Dr. Bottomley has practiced since 1974 in acute care, home care, outpatient clinics, nursing homes and long-term care facilities. Currently she is an academic, consult and clinical educator in Geriatric Physical Therapy and she serves on advisory boards for the Office of the Surgeon General and the Office on Women’s Health in the Department of Health and Human Services.

Dr. Bottomly is a past president of the Section on Geriatrics of the APTA and has been the editor of GeriNotes. She has authored numerous chapters and articles in the area of geriatrics. Her clinical research activities include study of nutrition and exercise, foot care in the elderly, peripheral vascular disease interventions, balance and falls in the Alzheimer’s population, Qi Gong and T’ai Chi as alternative exercise forms, and social policy development for the elderly.

This year, Jennifer was awarded the prestigious UW-Madison Physical Therapy Program Alumni Achievement Award.
and the UW-Madison PT Program Alumni Coalition

Presents

The Aging Drug-User: Pharmacology for the Older Client

Speaker Jennifer Bottomley, PT, MS, PhD

Friday Nov. 7  4:30-9:00 pm
Saturday Nov. 8  8:00-noon

Location:
UW-Madison campus
Medical Sciences Center
1300 University Ave Room 5235
Madison, WI 53705

Cost: $180

7.75 CEUs will be awarded

Please complete and mail to:
Lisa Levy @ UW-Madison DPT Program
1300 University Ave Room 5173
Madison, WI 53706-1532

Course Registration (please print)
Name: ____________________
Address: ___________________
__________________________
__________________________
E-mail: ____________________

Check one: PT □  PTA □

Check ($180) enclosed, payable to:
UW-Madison PT Alumni Coalition

Course confirmation will be provided via email.

Course registration deadline is October 24, 2014.

Watch for information about a possible gathering for the away Badger football game on Sat.