Research Review

RUSH UNIVERSITY
COLLEGE OF HEALTH SCIENCES

January — June 2010

WELCOME TO OUR NEWSLETTER

The first College of Health Sciences **Research Retreat** is planned for **December 6 2010**. This will be an opportunity to "retreat" from the daily routine to a place where we can relax (a little) and focus on one thing – research! The retreat will involve formal and informal discussions and information sharing –stay tuned!

Judy Luborsky, PhD; Associate Dean for Research
College of Health Sciences

RECENT ACCOMPLISHMENTS

GRANTS AWARDED

NIH grant: Cheryl Scott, PhD *(Department of Communication Disorders and Sciences)* is co-Principal Investigator with Dr Catherine Balthazar, Governors State University, of a newly awarded, 3 year NIH grant. The grant, "Building Complex Language: Effect of Treatment and Dosage" will study language impairment in older children and adolescents and treatment effects on the ability to form complex sentences.

CHS annual pilot grants are intended to fund small projects that will develop preliminary data for a larger research grant application. This year **Cassie Vanderwall, MS, RD, LDN, CPT** and **Mary Mullen, MS, RD, LDN,** *Department of Clinical Nutrition,* were awarded a pilot grant "Reducing childhood obesity via a school-based nutrition intervention among preschoolers". The purpose of this community nutrition intervention study is to promote lifestyle change in selected preschool teachers and their parents and caregivers, in terms of good nutrition and physical activity

PUBLICATIONS

Mary Stoykov, PhD,OTR/L, *Department of Occupational Therapy* and recipient of an NIH K12 grant from the Career Development Program for Physical and Occupational Therapists is co-author of "A Pneumatic Glove and Immersive Virtual Reality Environment for Hand Rehabilitative Training after Stroke" by Kamper, Connelly, Jia, Toro, Stoykov and Kenyon published in IEEE Transactions on Neural Systems and Rehabilitation Engineering, April 2010. Dr Stoykov also gave an invited talk at the Scripps Institute, La Jolla, CA on "Bilateral training for upper extremity hemiparesis: Research, rationale and treatment techniques".

PRESENTATIONS and AWARDS

2010 Rush University Forum for Clinical and Translational Research

Deans Award: **Jillian Jweinat,** *Health Systems Management,* "Using Administrative Data to Identify Patients at Risk of Hospital Readmission within 30 days: Development of an Algorithm to Identify High Risk Patients"

Platform presentations: **McLorn Carpenter,** *Communication Disorders and Sciences,* "Hearing Loss Prevention: A Comparison of Knowledge Levels of High School Band Musicians and Their Non- Musician Peers" and **Abby Droz,** *Health Systems Management*, "The impact of variations in coding practices on MS-DRG assignment with a Hospital Acquired Condition (HAC)"

SAVE THE DATE

December 6 2010, CHS Research Retreat at the Union League Club. More details will follow.

DID YOU KNOW?

How do you find NIH grants already funded in your area?

The old CRISP system has been replaced by the RePORT Expenditures and Results (**RePORTER**) query tool. It retains all the features of CRISP and provides additional query fields and hit lists that can be downloaded to Excel, and the publications and patents that have acknowledged support from each project. RePORTER also provides links to PubMed Central, PubMed, and the US Patent & Trademark Office Patent Full Text and Image Database. New features will be added to RePORTER throughout fiscal year 2010. Explore http://report.nih.gov/

How do you find other researchers at RUMC? Rush Library has a searchable database of RUMC faculty publications.

This is a useful tool to find other active researchers. It is listed under "Library" and then in the menu "Related Content". Another resource is on the main Rush web page; go to Research at Rush University and then under "Related Content" to "Search Faculty Profiles".

SAVE THE DATE

The CHS Faculty Research Development Committee presents a **monthly Research Lunch and Learn** on the **3rd Thursday of the month, 11:30am-1pm**.

- **September 16 2010:** College of Health Science Department research updates
- **October 21 2010:** Joellen Wilbur, PhD Associate Dean, College of Nursing "Research in the College of Nursing"
- **November 18 2010:** To be announced.

AT A GLANCE:

The Physician's Assistant Program & the Department of Perfusion Technology

Physician assistants (PAs) are health professionals licensed to provide medical care with physician supervision. PAs provide a broad range of medical services, including primary care and specialty procedures. PAs prescribe medications, treat injuries and diagnose and treat illnesses. The Rush PA program offers an innovative 33 month curriculum that uses the extensive resources of Rush University Medical Center. Rush's Physician Assistant degree program began June 2010.

Regina Chen, MS, PA-C, LAc, Dipl. CH, Director, Physician's Assistant Program: Regina's interest in research began with her work with Dr. Margaret Fischl at the University of Miami/Jackson Memorial Hospital AIDS Clinical Research Unit, where she worked in epidemiological surveillance and research. She went on to graduate with a BS in Physician Assistant Studies from the University of Florida in 1992, and then completed an 18 month post-graduate PA residency in General Surgery at Montifiore Medical Center in the Bronx, NY. Upon completing her PA training, she worked as a research coordinator for Dr. Gwendolyn Scott at the University of Miami, Department of Pediatrics, AIDS Clinical Trial Group. She has a degree in Acupuncture and Oriental Medicine Studies from the Canadian College of Acupuncture and Oriental Medicine, Victoria, British Columbia and received her MS in Healthcare Management from Rosalind Franklin University.

Her areas of research interest includes clinical trials and translational studies in HIV/AIDS, integration and validation of complementary medicine practice, particularly in the areas of acupuncture, Chinese herbs, tai chi and qi gong, and medical informatics.

Dr. Wil Rapier, PhD (adult education, Iowa State University) is **Chair, Department of Perfusion Technology** also holds a master's degree in Health Care Management from Webster University, a Bachelor of Arts from Park University in Health Care Management and a Bachelor of Science from the University of Oklahoma in Physician Assistant (PA) Studies. Dr. Rapier holds the Certificate in Perfusion Technology from the Milton Hershey Medical Center and is licensed in the State of Illinois as a perfusionist and physician assistant. Prior to coming to Rush, Dr. Rapier was an assistant professor in the Department of Physician Assistants at the University of Detroit - Mercy. In his role as a physician assistant, Dr. Rapier served as a chief medical officer to active duty combat battalions in the United States Army. As an Army PA, Dr. Rapier achieved the rank of captain while on active duty. In recognition of his expertise as a teacher, clinician, and leader, Dr. Rapier has received a number of honors and awards, including three awards for outstanding academic achievement from the Office of Minority Affairs at Iowa State University, and military awards for meritorious service and exceptional service in combat units. Dr. Rapier has given a number of professional presentations and is active in supervising master's degree perfusion students' research projects.

SEMINARS and WORKSHOPS

Summary of Research Lunch and Learn presentations from January to June 2010.

January: Dr. Linda Baum, PhD, Associate Professor in the Department of Immunology/Microbiology and Scientific Director, National Institutes of Health Centers for AIDS Research Presentation spoke on opportunities for research and collaboration in HIV research through the Chicago D-CFAR.

February: Diane Howard, PhD, *Health Management Systems,* gave an overview of ICPSR and research opportunities using their data collections, and examples of her collaborations leading to publications using ICPSR.

March: CHS Pilot Grant awardees progress reports

Kinsuk Maitra, PhD, OTR/L, Department of Occupational Therapy Description of Occupational Therapy Outcomes for Patients with Multiple Sclerosis and Related Disorders in an Urban Inpatient Rehabilitation Setting: A Five year Retrospective Study

Valeriy Shafiro, PhD, Department of Communication Disorders and Sciences, Discrimination of Stochastic Frequency Modulation Patterns by Elderly Listeners and Cochlear-Implant Users

May: Raj Behal, MD, MPH, Associate Chief Medical Officer and Senior Patient Safety Officer presented a seminar on "Quality, Healthcare Reform and Outcomes Research -- Start Your Engines".