

W2COHP

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Happy Holidays

FROM DEAN PREWITT

Another semester is coming to a close and I could not be more proud of the faculty, staff and students within the College of Health Professions. As we move forward into the upcoming year, it is clear we are committed to furthering the academic mission of Marshall University. We have many exciting things in store for our COHP community and we will continue to keep you updated on new projects and initiatives within our college. My gift to you this holiday season is the gift of laughter as the sight of me in a Santa Hat should surely bring you a smile. I want to wish everyone in our college “Happy Holidays!” May you have a relaxing break and we will see you when you return.

Michael Prewitt



Biomechanics faculty member travels to Rome for international research



Dr. Suzanne Konz of the Marshall University College of Health Professions traveled to Rome last month to give an oral presentation on her biomechanics research during the 2014 International Congress on Sport Science Research and Technology Support (icSPORTS) conference.

Konz, director of the college's biomechanics laboratory, said her research focused on the reliability and validity of the XOS Motion Capture System, which is housed in the basement of the Henderson Center on Marshall's Huntington campus.

"We have several motion analysis systems in our biomechanics lab at Marshall and the XOS system is relatively unknown and untested," Konz said. "My graduate assistant and I did a reliability study on the system using a vertical jump component to test how high people jump. In our research, we found this system isn't as reliable as other equipment such as the Vertec, which is used in strength conditioning to test the jump height of a jump."

Konz said her research on the XOS system emphasized the technology behind the equipment instead of its practical application. Konz said this study aimed to provide protocol for strength and conditioning professionals, as well as researchers, to indicate the best practices for their assessment or research.

"By assessing the validity and reliability of the system, individuals can make research-based decisions on

purchasing and implementing these new tools," Konz said. "When one considers many of these systems cost hundreds of thousands of dollars, it becomes extremely important they provide valid and reliable results."

David Cottrill, a 2014 graduate of the college's exercise science master's program, served as Konz's graduate assistant throughout her research. Cottrill, now an adjunct faculty member at West Virginia State University teaching biomechanics, said technology is taking a much larger role in motion analysis and assessment.

"If researchers and coaches are to implement these technologies into their activities, scientific validation of these systems' capabilities must be conducted," Cottrill said. "Prior to our research, no such investigation had been conducted on the XOS system. There is a high demand for research assessing the validity and reliability of new instruments, tools and methods within the fields of biomechanics."

Cottrill said because of Konz's quality of work, as well as her ability to identify research needs that may be overlooked, her work is instrumental in ensuring the field of biomechanics remains up to date and progressive.

"Dr. Konz's research provides an exciting means to apply the skills and knowledge taught within biomechanics and the exercise science department as a whole. Her high standard of performance and work ethic are contagious and set others up for future success," Cottrill said. "I am and continue to be thankful for the opportunity to learn from her during my time at Marshall."

In addition to Konz's recent trip to Rome, she also traveled to Brazil this past year for her research on muscular biomechanics and sports performance. Konz said she plans to present her research at the 25th Congress of the International Society of Biomechanics held at the Scottish Exhibition and Conference Center in Glasgow, Scotland, this summer.

To learn more about the 2015 ISB conference, visit <http://www.isbglasgow.com> online. For more information on Dr. Konz's research, contact her at konz@marshall.edu.

Sawhney presents global research at 142nd annual APHA conference



Dr. Monika Sawhney presented international research in November at the 142nd APHA Annual Meeting and Exposition in New Orleans, La.

Dr. Monika Sawhney of the Marshall University College of Health Professions gave two oral presentations on her international research on child health and mortality in Kenya and health system efficiency in India during the 142nd American Public Health Association Annual Meeting and Exposition in New Orleans last month.

Sawhney, director of the college's undergraduate public health program, said in most parts of the world, factors are improving with regard to child health, but this is not the case in many developing countries such as Kenya.

"While most countries experienced a decline in child mortality, Kenya experienced a rise in child mortality during the late 1990s and early 2000s, and one of my presentations reviewed the determinants for rise in child mortality in Kenya," Sawhney said. "Some of our findings indicate they are macro-level factors such as high prevalence of HIV, quality of childcare and health care providers and access to health care responsible for poor performance of child health indicators in Kenya."

Sawhney said this is a situation in certain countries, but a very timely topic now due to the Ebola outbreak.

"Officials are working to address health disasters like the 2014 Ebola epidemic and findings from this research can highlight immediate needs and focus on basic health care (child and maternal care) concerns for years to come," Sawhney said. "My research with the efficiency of health care systems was conducted in India, but is very applicable to other countries, especially the U.S., when one considers our country's economic hardships and changing populations with regard to efficient use of available resources. We need to continue to look at the bigger picture and focus on how we can improve our country's health care environment as a whole."

Sawhney presented her international research, "Determinants of the Recent Rise in Childhood Mortality in Sub-Saharan Africa: Evidence from Kenya" and "Efficiency of health care system and child health: Evidence from BIMARU states in India," Nov. 17–18.

For more information on Sawhney's research, contact her at sawhney@marshall.edu. For more information on the college's undergraduate public health program, visit www.marshall.edu/cohp.



Public health students administer 100+ free health screenings in Tanzania



Marshall University students from the undergraduate department of public health traveled to Tanzania this past summer in an effort to improve child and maternal health throughout the world.

Through this study abroad opportunity, students were given the chance to administer more than 100 free health screenings including prenatal care, HIV, pediatric and tuberculosis screenings on women, children and oPublic health students traveled to Tanzania to administer 100-plus freethier afflicted patients.

Dr. Monika Sawhney, director of the undergraduate public health program, said students had the opportunity to learn about pressing health issues and gain practical experiences in a global setting.

“Our public health students were able to learn all about the Tanzanian health care system with special emphasis on child and maternal child health,” Sawhney said. “We were able to offer these students an opportunity to explore aspects of our world that they would never have a chance to explore otherwise.”

Minal Patel, 23, of Huntington, was one of 10 Marshall students who traveled to Tanzania to gain insight into how medicine and health care work in the developing world. Patel said she also wanted to break down any misconceptions she had about Africa.

“During our time in Tanzania, I learned there are many levels of health care, but it must all revolve around the local culture and their beliefs,” Patel said. “Students should be interested in next summer’s trip because

there will be no shortage of learning, exploration and adventure. Alongside seeing the real Africa and getting past all the misconceptions, you will learn so much about yourself. You gain insight into what you really want to do with your life.”

Patel said the learning environment while studying abroad was unlike any other experience she’s had since beginning her college career.

“This trip wasn’t just about classwork and textbooks - we went into the field and visited hospitals, clinics and got a firsthand look into the Tanzanian health care system,” Patel said. “We were learning from them while helping them at the same time. This was a very interactive, hands-on learning experience, exactly what I needed to realize what public health is all about.”

The upcoming Tanzania study abroad trip will take place June 8 - July 12, 2015. Cost of the trip is \$4,235 plus airfare and the \$250 application fee. Sawhney said students can receive undergraduate or graduate credit for coursework in public and maternal health, biology, anthropology, internship and service learning. Individuals interested in signing up before Jan. 20 can save \$100. The final application deadline for the trip is Feb. 15. To learn more, please contact Sawhney by phone at 304-696-2602 or by e-mail at sawhney@marshall.edu.



Marshall communication disorder graduate student receives research travel award



Megan Foster, a graduate student in the Marshall University College of Health Professions, has been selected to receive the Student Research Travel Award (SRTA) to attend the annual American Speech-Language-Hearing Association convention in Orlando, Florida, which was held Nov. 20-22.

The award is given to the high-rated ASHA convention papers with a student as first author in each of the 27 topic categories.

Foster, a communications disorders graduate student, said she worked with a team of researchers to improve the lives of people with various disabilities living in Appalachia.

"I worked with classmates Jordan Lewis and Hillary Johnson to explore Appalachia's reputation for being a culturally rich region and how these cultural factors influence what it means to have a disability in Appalachia," Foster said. "This award is a recognition of our collective efforts. It's great to know that our hard work is being recognized nationally and that others are interested in our research."

Foster said the results of their study led them to establish clinical implications involving rehabilitation goals and strategies for treatment within the Appalachian region.

"We found that acceptance of a disability is ongoing

throughout the rehabilitation process for those with disabilities. Additionally, people with disabilities seem to change their identities based on a 'give-and-take' relationship with their support systems," Foster said. "One of our biggest implications reinforces the need to consistently reach out to caregivers and support systems when treating clients with disabilities. People living in Appalachia heavily rely on their support systems and prefer to stay close to the region when receiving treatment."

Dr. Karen McComas served as Foster's faculty mentor. McComas said she is very proud of Foster for being chosen for this award.

"This research has taken three years and although it was very time-consuming, it is also very rewarding," McComas said. "We are very proud of Megan, Jordan and Hillary for their hard work and getting their research accepted to the ASHA conference."

Dr. Karen McNealy, chair of the Department of Communication Disorders, said the purpose of the SRTA is to highlight the research activities of students and encourage careers in science and research. McNealy said award recipients would receive a \$500 stipend and complimentary registration to help defray costs associated with attending the convention.

"The national recognition for this study shows that our communication disorders program realizes the importance of research and evidence-based practice in our field," McNealy said. "We always encourage our students and our faculty to pursue research endeavors such as these to broaden their experiences while at Marshall University."

McNealy will join her communication disorders colleague Pam Holland and physical therapy program director Dr. Penny Kroll in giving an oral presentation on their research with interprofessional education during the convention.

For more information on Foster's research, contact her at meganfoster12@yahoo.com. To learn more about this year's ASHA convention, visit <http://www.asha.org/events/convention/> online. For additional information on the Department of Communication Disorders and its research initiatives, visit www.marshall.edu/cohp online.

SON conducts flu shots, recruitment fair and Nursing Simulation Center open house

November 14th: The COHP held a Career Fair at Huntington High School on Friday morning, Nov 14th. Approximately 83 high school students attended the fair. Faculty from various COHP programs attended the fair including: Nursing, Communication Disorders, Clinical Lab Sciences, Dietetics, Health Sciences, Social Work, Exercise Science, and Athletic Training. Marilyn Fox from Student Services attended to represent programs unable to attend. Additionally, a recruiter from the university attended the career fair. Overall, the fair was a success. Huntington High School faculty and counselors hope to make this an annual event.

- **November 17-18th:** The Student Nurses' Association administered flu shots to the Marshall community on November 17-18th in the Memorial Student Center. Members of the university commended our students on their professionalism and attention to detail. Great job!
- **November 19-20th:** The School of Nursing held open houses for the Nursing Simulation Center on the Huntington and Point Pleasant campuses. Attendees included COHP and SON faculty and staff, local college and high school students and local media. The second phase of the Nursing Simulation Center should be completed this spring and SON plans to hold additional open houses to showcase these facilities.



Dates To Remember

- **December 23rd:** Winter break, University closed
- **January 2nd:** University re-opens for Spring Semester
- **January 9th:** COHP Faculty Meeting, MSC BE5, 10 a.m. - noon
- **January 12th:** Classes resume for students
- **January 19th:** Martin Luther King Day observed, University closed
- **February 6th:** Applications for May graduation due in dean's office

COHP Faculty Published Works: 2014

Communication Disorders

- **Coleman, C.**, & Yaruss, J. S. (2014). A comprehensive view of stuttering: Implications for Assessment and Treatment. *SIG 16 Perspectives on School-Based Issues*, 15(2), 75-80.
- **McComas, K.** (2015). Communities of practice in CSD: facilitating transformational learning. In C. Bowen, *Children's speech sound disorders* (2nd ed.). Oxford: Wiley-Blackwell, pp. 257- 61.
- **McComas, K.** (2014). Dig in your heels and fight: How women become researchers in communication sciences and disorders. Guildford, UK: J&R Press, Ltd.

Health Informatics

- Berhie, Girmay. "Health Informatics for the Curious: Why Study Health Informatics?" Accepted as peer-reviewed book chapter. ISBN: 978-1-925128-71-0

School of Kinesiology

- **Konz SM**, and D. Cottrill. Testing the reliability and validity of the XOS Motion Capture System at measuring the counter movement vertical jump. International Congress on Sports Science Research and Technology Support. Rome, Italy. October 2014

Presentations:

- **Konz SM**, and D. Cottrill. Testing the reliability and validity of the XOS Motion Capture System at measuring the counter movement vertical jump. International Congress on Sports Science Research and Technology Support. Rome, Italy. October 2014
- **Konz SM**, and D. Cottrill. Testing the reliability and validity of the XOS Motion Capture System at measuring the counter movement vertical jump. International Society of Biomechanics in Sport. Johnson City, TN. July 2014
- **Konz SM**. Using Technology to Aid Rotational Athletes. National Athletic Trainer's Association Clinical Symposium & Annual Meeting, Indianapolis, IN. June 2014.
- Grove, K, J Berry, and **SM Konz**. Peer-to-peer discussion: Taking the Blinders Off: Helping the Athletic Trainer Make Good Ethical Decisions. National Athletic Trainer's Association Clinical Symposium & Annual Meeting, Indianapolis, IN. June 2014.
- **Konz SM**. Using Technology to Improve Athlete Mechanics. West Virginia Athletic Trainer's Annual

Meeting. Charleston, WV February 2014

- Lopes-Albers A, **Timmons MK**, Kardouni R, Ciconelli R, Michener LA. Scapular Dyskinesia and the Effects on Scapular Kinematics and Muscle Activity in Patients with Rotator Cuff Disease, *Archives of Physical Medicine*, October 15, 2014
- Gorgey AS, **Timmons MK**, Michener LA, Ericson JM, Gater DR. Skeletal Muscle Atrophy Influences the Reliability of Ultrasound Imaging to Wrist Extensor Muscles in Humans with Tetraplegia, *PM&R*, February; 6(2) 2014

Conference proceedings:

- Sharma S, **Timmons MK**, Michener LA. Relative muscle activity of scapular muscles during active arm elevation and lowering in patients with subacromial impingement syndrome. APTA Combined Sections Meeting, Indianapolis, IN, February 2015
- Yesilyaprak SS, **Timmons, MK**, Lopes A, Is pain and weakness experienced during the "full can" test a result of changes in subacromial space? European Society for Surgery of the Shoulder and the Elbow, Istanbul, Turkey, September 2014
- **Toma, Kumika**. "Effects of Weight Restriction on Rowing Performance among Elite Oarsmen" at ACSM (American College of Sports Medicine) annual meeting, Orlando, FL in May.

School of Physical Therapy

- **Karim R, Cline J, Gottlieb J**, Riley B. 320 students from 7 disciplines: a model for interprofessional education. Poster presented at Interprofessional Education Collaborative Faculty Development Institute; 2014 October 1-3 Herndon, VA.
- **Karim R, Kroll P**. Herd collaboration. Presentation presented at iPED: Inquiring Pedagogies 6th Annual Conference on Teaching and Learning, Center for Teaching and Learning; 2014 August 19 Huntington, WV.
- **Karim R, Kroll P**. A model for interprofessional education. Poster presented at Combined Sections Meeting, American Physical Therapy Association; 2014 February 2-6 Las Vegas, NV. Kroll P, Karim R, Holland P, Frazier L, Cline J, Smith A. A model for interprofessional education. Poster Presented at The Association of Schools of Allied Health Professions Annual Conference; 2013 October 23-25 Orlando, FL.
- **Mehta SP**, MacDermid JC, Richardson J, MacIntyre N,

COHP Faculty Published Works: 2014

Grewal R. A Systematic Review of Psychometric Properties of the Patient-rated Wrist Evaluation. *J Orthop Sports Phys Ther* 2014. In Press

- **Mehta SP**, MacDermid JC, Richardson J, MacIntyre N, Grewal R. Reliability and Validity of Selected Measures Associated with Increased Fall Risk in Females over the Age of 45 Years with Distal Radius Fracture - A Pilot Study. *J Hand Ther* 2014. In Press
- Minkemeyer V, Merriweather M, Shuler FD, **Mehta SP**, Zain QN. Primary Care Fall Risk Assessment for Elderly West Virginians. *W V Med J* 2014. In Press
- **Mehta SP**, MacDermid JC, Richardson J, MacIntyre N, Grewal R. Baseline Pain Intensity is a Predictor of Chronic Pain in Patients Following Distal Radius Fracture. *J Orthop Sports Phys Ther* 2014. In Press
- **Mehta SP**, MacDermid JC, Richardson J, MacIntyre N, Grewal R. A Structured Literature Synthesis to Identify Measures for Screening the Risk of Adverse Outcomes in Patients Following Distal Radius Fracture. *Crit Rev Phys Rehabil Med* 2014. In Press

Public Health

- Murray, CJL.; et.al.....**Sawhney, M.S.**, et. al... Global, regional, and national incidence and mortality for HIV, tuberculosis, and malaria during 1990–2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet*, July 22nd 2014.
- **Sawhney, M.S.** Wright N., Gupta, R.; Comprehensive Tobacco Control Policies in West Virginia – Going From Intersection to Integration. *West Virginia Medical Journal*, Special issue, July/August 2014.
- Kassebaum N.J.; et.al..... **Sawhney M.S.**; et. al..... Global, regional, and national levels and causes of maternal mortality during 1990–2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet*, May 2nd 2014.
- Wang, h., et al..... **Sawhney M.S.**; et al..... Global, regional, and national levels of neonatal, Infant, and under-5 mortality during 1990—2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet*, May 2nd 2014.
- Opiyo, C., and **Sawhney, M.S.** Determinants of the recent rise in childhood mortality in Sub-Saharan Africa: Evidence from Kenya Demographic and Health surveys. *African Population Studies*, Volume 28, Number 1: Supplement on Demographic and Health Surveys in Africa. July 2014.

Peer Reviewed Presentations:

- “Global, regional, and national levels of age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013”.
- **Sawhney, M.S.**, November 2014. “Efficiency of health care system and child health: Evidence from BIMARU states in India. Oral presentation at the 142nd APHA Annual Meeting and Exposition. New Orleans, LA.
- Opiyo C., and **Sawhney, M.S.**, November 2014. Determinants of the Recent RISE in Childhood Mortality in Sub-Saharan Africa: Evidence from Kenya. Oral presentation at the 142nd APHA Annual Meeting and Exposition New Orleans, LA.
- **Sawhney, M.S.** September 2014. “Effect of women’s empowerment and socioeconomic status on choice and use of family planning methods in Sub-Saharan Africa (SSA)” – Third Global Symposium on Health Systems Research – Science and practice of people-centred health systems. Cape Town, South Africa.
- Shuyan Gu, Xiaocheng Xu, Lizheng Shi, **Sawhney, M. S.**, Huimei Hu, Hengjin Dong September 2014 (forthcoming). “Cost minimization analysis of clinical option scenarios for metformin and acarbose in treatment of type 2 diabetes: Bases on direct and indirect treatment comparison results. - 6th Asia-Pacific Conference, Beijing, China.
- **Sawhney, M.S.** July 2014. “Impact of physical activity on diabetes care among aging population “ presentation at the 10th World Congress – Health economics in the age of Ingeivity: A joint International Health Economics Association (iHEA & ECHE) Congress organized by International Health Economics Association. Dublin, Ireland.
- **Sawhney, M.S.**; Kinfu, Y. February 2014. Effect of Women’s empowerment and socio-economic status on choice and use of family planning methods in Sub-Saharan Africa and South East region”. Oral presentation at the International Confercne on ‘Women and Millennium Developments Goals: A Social Work Response’, Faculty of Social Work, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India.