

Joint Ventures



Boonshoft
School of Medicine
WRIGHT STATE UNIVERSITY

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Message from the Chair Doing More with Less



Both the changing climate in medical education and economics in medicine have required careful examination of the way we deliver care to

our orthopaedic patients. Over the past year, our department has confronted many issues related to these topics.

Starting in July, resident work hours will be further restricted. The new changes will predominately affect the interns as they will not be allowed to work shifts longer than 16 hours. The intern year has historically been a time when new physicians learned patient management in high volume settings, where much was learned through sheer repetition. Interns learned to be efficient by handling a high volume of patients. As the educational model has evolved into its present form, interns must learn more with less patient exposure and contact. The knowledge base required to pass board exams has increased, yet the patient contact has decreased. We must address these changes by making the educational time more efficient. We are developing the bioskills teaching lab with this in mind. This year we began offering weekly skills labs at the Dayton VA Medical Center rotating orthopaedic topics. This would not be possible without faculty and vendor support.

Our research programs have seen similar changes. Funding for Ph.D. support and lab equipment has been reduced as part of budget

cuts, yet our research endeavors continue to grow. The residents and faculty in orthopaedics and plastic surgery continue to devise creative ideas through collaboration. Over the past year, we have begun a relationship with the engineering group at the University of Dayton to develop a tissue engineering research lab. This has been the project of R. Michael Johnson, M.D., chair of the plastic surgery division. The challenge to our faculty is to develop clinical pathways for our basic science research to get their ideas out of the lab and into clinical practice.

As our clinical practice grows in volume, we have seen reimbursements decrease, again challenging us to continue to efficiently provide a high level of care with the same number of staff members. Our group has continued to grow as we welcomed Gregory L. Stover, D.O., into our practice. Greg has had a general orthopaedic practice at the Upper Valley Medical Center in Troy and at Wilson Memorial in Sidney. Greg brings with him 20 years of experience running an independent practice, and he will provide valuable input as we transition to electronic medical records. By combining staffs and resources, we will gain efficiency and expertise through collaboration.

Overall, the past year has been challenging as economic times have necessitated many difficult budget decisions in both our educational programs and our clinical practice. Through careful examination, many creative ideas have emerged that will allow us to confront the challenging times and continue to pursue our goals.

2011 Orthopaedic Surgery Alumni Reception at AAOS
Sheraton Marina ■ San Diego, CA ■ February 18, 2011, 7:00 p.m.

Orthopaedic Surgery Residency Update



As a 2005 graduate of the Wright State University Boonshoft School of Medicine Orthopaedic Surgery Residency Program, I am privileged and proud to have been asked to take on the role of residency program director. I take over the position at a time when our program has been unbelievably produc-

tive with regard to research and clinical activity. Once again our program is incredibly fortunate to have such great physicians to send off to the world to take care of people.

We graduated three residents this past June, each of whom has gone on to excellent post-graduation positions. Dr. Michael Iossi and Dr. Paul Peters both took foot and ankle fellowship positions at a couple of the most prestigious programs in the country. Mike is at Washington University in St. Louis and Paul is at Union Memorial Hospital in Baltimore. Dr. Ryan Finnan was asked to start a trauma readiness program organized through the U.S.

Air Force, C-STARS, and is making great strides in creating this very impressive program. He is currently living in Cincinnati and working at The University Hospital as a trauma attending.

We will be graduating three residents this year, Dr. Kenny Edwards, Dr. Adam Hamilton, and Dr. Brad Picha. Kenny has accepted a spine fellowship at The Texas Back Institute in Dallas and Brad a spine fellowship at Ortho Indy Spine in Indianapolis. Although we are always proud of our residents getting great fellowship positions such as these, it is equally satisfying to see graduates enter clinical practice after residency without one. Adam has taken a private practice position as a general orthopaedist in Minnesota, and we feel that he is very well equipped to do so.

We were fortunate in the NRMP match this past year and are proud to have matched with Dr. John Dundon, Dr. Peter Knoll, Dr. G. Ryan Rieser, and Dr. Matthew Ross. We welcome these new residents to our family and know that the residency is set up for great success in the future.

We are once again proud that all of our graduated residents passed the Orthopaedic Board Examination this past year.

We have recently introduced a bioskills and simulation surgery program at the Dayton VA Medical Center to enhance the procedural skills of our residents. We are excited about the potential educational, clinical, and research applications the simulator provides the residency.

The residency program has had a very productive research year, as evidenced by the Scholarly Activity section (see page 8). We continue to strive to make a difference in the practice of orthopaedic surgery beyond our own walls.

As I look back at my time as a student and resident, and now as a faculty member here in Dayton, I am amazed at the growth our program has seen. While the program is no doubt indebted to its leadership for their vision, it is the staff, residents, and faculty that continue to make this a special place to train.

—Michael A. Herbenick, M.D.

2010 Graduation Symposia



The 5th annual scientific symposia were held in conjunction with our June 2010 graduation celebration. Dr. Jason H. Calhoun, professor and chair of The Ohio State University College of Medicine's orthopaedic surgery department, served as our visiting professor.

Research Symposium, June 18, 2010

Jason H. Calhoun, M.D., F.A.C.S – History of military orthopaedic infections

Ryan P. Finnan, M.D. (Chief Resident) – Bone graft harvest using the Reamer-Irrigator-Aspirator: a mechanical comparison of three starting points in cadaveric femurs

Paul G. Peters, M.D. (Chief Resident) – Time of exposure to C-arm drape contamination

Michael F. Iossi, M.D. (Chief Resident) – Musculoskeletal function following bariatric surgery

J. Adam Hamilton, M.D. (R-4) – Scapula fractures following reversed shoulder arthroplasty: classification and treatment

Matthew P. Noyes, M.D. (R-3) – Functional and radiographic long-term outcomes of hemiarthroplasty for proximal humerus fractures

Mark H. Stouffer, M.D. (R-2) – Five-year radiographic and clinical follow-up of all cemented total shoulder arthroplasty

Michael J. Coffey, M.D. (R-2) – Treatment of glenohumeral sepsis with a commercially produced antibiotic-impregnated cement spacer

Brad M. Picha, M.D. (R-4) – The effect of locking plugs on the strength of a locking compression plate construct in an osteoporotic model

Emmanuel K. Konstantakos, M.D. (R-3) – Healing of latrogenic skeletal muscle wounds is affected by incision device

Kelly Estes (WSUBSOM Medical Student) – Biomechanics of ACL injury

Alyssa George (WSUBSOM Medical Student) – Analytical evaluation of humeri failure

Isaac Mabe (WSUBSOM Medical Student) – Cervical spinal endplate design and development

Ashkan Golshani (WSUBSOM Medical Student) – Total ankle replacements – new models

Graduation Symposium, June 19, 2010

Richard T. Laughlin, M.D. – Open and closing remarks

Jason H. Calhoun, M.D., F.A.C.S – Surgical site infections in orthopaedics

Case Presentations – Kenny B. Edwards, M.D. (R-4), J. Adam Hamilton, M.D. (R-4), Brad M. Picha, M.D. (R-4), Michael J. Anderson, M.D. (R-3), Benjamin P. Kleinhenz, M.D. (R-3), Christopher B. Lyons, M.D. (R-3), Indresh Venkatarayappa, M.D. (R-3)

Orthopaedic Trauma Update



The orthopaedic trauma service at Miami Valley Hospital remains busy and productive. There were 3,424 trauma admissions in 2010, an increase of 167 admissions from the previous year. Ninety-three percent of our trauma is through a blunt mechanism with falls and motor vehicle collisions accounting for the vast

majority. September of 2010 was the busiest month ever on record with 342 trauma admissions.

Ten faculty members (both academic and clinical) contribute to the orthopaedic trauma coverage at the hospital. Additionally, the orthopaedic trauma fellow, three orthopaedic residents, Diane Kimpel, R.N., and an emergency medicine resident provide the daily coverage and support for this busy service.

Our newest clinical faculty participant in the orthopaedic trauma call schedule is Chad Weber, D.O., who recently joined Orthopedic Associates of Southwest Ohio.

The orthopaedic trauma fellowship remains strong with full accreditation through ACGME and strong support from Miami Valley Hospital. Last year's graduate, Justin Sybesma, M.D., pursued his subspecialty interest in Kalamazoo, Mich., and serves two level I trauma centers in that community. Our current fellow, Dr. K. Sunil Menon, is pursuing a general orthopaedic surgery position in Coffeyville, Kan. Next year, Eric Verwiebe, M.D., will join the fellowship from William Beaumont Army Medical Center in El Paso, Texas. The match for the 2012-2013 fellowship position will be held on March 1, 2011.

We look forward to another busy year with ever-increasing volume.

37th Annual Graduation Ceremony

Dayton Country Club ■ June 19, 2010

Ryan P. Finnan, M.D.

M.D. – Loyola University Stritch School of Medicine, Chicago

Active Duty – U.S. Air Force, Center for Sustaining Trauma & Readiness Skills (C-STARS), Cincinnati University Hospital Trauma Center, Cincinnati

Michael F. Iossi, M.D.

M.D. – University of Iowa Carver College of Medicine, Iowa City

Foot & Ankle Fellowship – Washington University, St. Louis

Paul G. Peters, M.D.

M.D. – Wayne State University School of Medicine, Detroit

Foot & Ankle Fellowship – Union Memorial Hospital, Baltimore

Justin T. Sybesma, M.D. – Orthopaedic Trauma Fellow

M.D. – Loma Linda University School of Medicine

Residency – Michigan State University College of Human Medicine, Grand Rapids

Orthopaedic Trauma Surgeon – Healthcare Midwest Physician Group, Kalamazoo



Department Awards

1st Place Basic Science –
Indresh Venkatarayappa, M.D.

2nd Place Basic Science –
Ryan P. Finnan, M.D.

Dr. Finnan's Teaching Excellence Award –
Michael J. Prayson, M.D.

Dr. Iossi's Teaching Excellence Award –
Richard T. Laughlin, M.D.

Dr. Peters' Teaching Excellence Award –
Timothy F. Peters, M.D.

Department Teaching Excellence Award –
Steven M. Kleinhenz, M.D.

New Residents and Fellows



John M. Dundon, M.D.
Wright State University
Boonshoft School of Medicine, Dayton



Peter A. Knoll, M.D.
Case Western Reserve University
School of Medicine, Cleveland



G. Ryan Rieser, M.D.
Wake Forest University
School of Medicine, Winston-Salem
6-Year Research Track



Matthew S. Ross, M.D.
Keck School of Medicine of the
University of Southern California, Los Angeles
6-Year Research Track



K. Sunil Menon, M.B.B.S./M.D.
Orthopaedic Trauma Fellow
M.B.B.S./M.D. – Thrissur Medical College,
Thrissur, Kerala, India
Master of Surgery – Kasturba Medical College,
Manipal, Karnataka, India
Internship/Residency – Medical Colleges of
Thrissur and Calicut, Kerala, India
Adult Reconstruction Fellowship – Duke University
Medical Center, Winston-Salem
Master of Public Health – University of Maryland
School of Public Health, College Park

Ph.D. Research Efforts Highlighted

Tarun Goswami, D.Sc., is in the midst of major research efforts to redesign artificial joints for the whole musculoskeletal system. According to a feature in the Fall 2010 issue of Wright State University Boonshoft School of Medicine's *Vital Signs*, "Goswami's goal is to extend the life of artificial joints, make them more flexible, and reduce pain for patients." Another goal of this research is to spur Ohio's economic and job growth as these devices transition into the joint replacement industry. His team is researching artificial knee joint liners and hip joints, and has produced patented artificial ankle joints, total toe joints, braces, and splints. Richard T. Laughlin, M.D., orthopaedic surgery professor and chair, is pleased with these research efforts. "Collaborating with the orthopaedic surgery department has raised the level of understanding and scholarship in joint replacement." Through an external grant with matching Wright State research funds, Dr. Goswami also established the Spine Research Group (SRG) to train future engineers, physicians, and researchers.



Dr. Konstantakos Featured in AAOS Now Article

The October 2010 issue of *AAOS Now*, the journal of the American Academy of Orthopaedic Surgeons, featured an interview with Manny Konstantakos, M.D., a fourth year orthopaedic surgery resident.



Konstantakos successfully challenged himself and his fellow residents to a 100 percent participation in the Orthopaedic Political Action Committee. According to Konstantakos, "[the Orthopaedic PAC] is the only national political action committee in Washington, D.C., representing the interests of the orthopaedic community before Congress. If we as orthopaedic residents don't support our field to provide our patients the utmost in health care, who will?"

Dr. Gayton's Medical Mission to Kenya

In January 2010, Dr. Chris Gayton (R-2) traveled to Western Kenya with World Medical Mission, a division of Samaritan's Purse. Dr. Gayton worked at Tenwek Hospital in Bomet under the direction of Dan Galat, M.D. Dr. Galat, who completed his orthopaedic surgery residency training at the Mayo Clinic, serves as the Surgical Implant Generation Network (SIGN) program manager at Tenwek. During his three-week trip Dr. Gayton assisted in over 30 surgeries, which were mostly trauma cases.



Dr. Lehner and Dr. Picha Provide Medical Aid in Haiti



On January 12, 2010 Haiti was ravaged by a 7.0 magnitude earthquake about 25 miles west of Port-au-Prince, killing approximately 250,000 people, leaving nearly 1 million homeless. Captivating the world's attention, Haiti desperately needed international relief efforts. Brad Picha, M.D. (R-5), and James T. Lehner, M.D., clinical associate professor and department alumnus, provided medical aid to the Haitian people through an affiliation with InterVol, a humanitarian organization out of Rochester, NY. They worked in Leogane—the earthquake's epicenter where an estimated 80-90 percent of the buildings were either destroyed or left uninhabitable—at a facility associated with the University of Notre Dame's



Haiti Program. They left the states on February 26 and returned on March 6, and were joined by a plastic surgeon, a pediatrician, a geriatrician, a psychiatrist, nurses, and other support staff. Their "hospital" was a mobile

tent consisting of an operating room, recovery room, OB suite, and ER. The first anniversary of the Haitian crisis highlighted the ongoing need for humanitarian aid and rebuilding of the nation's infrastructure.

Herbenick Named Residency Program Director

Michael A. Herbenick, M.D., has added another milestone to his orthopaedic medical education career. In 2010, the department named Dr. Herbenick as the Orthopaedic Surgery Residency Program director. Dr. Herbenick graduated from our residency program in 2005 and joined the department as assistant professor in 2006, after completing a sports medicine fellowship at Kerlan-Jobe in Los Angeles. In 2009 he was certified by the American Board of Orthopaedic Surgeons in the orthopaedic sports medicine subspecialty. Dr. Herbenick focuses his practice on sports medicine and is team physician for the University of Dayton and consultant for Wright State Athletics.



Neuroscience Institute Launched



At a joint press conference in February 2010, dignitaries from both institutions announced the Wright State University & Premier Health Partners Neuroscience Institute with offices located at Wright State University as well as Miami Valley Hospital. Also announced was Miami Valley Hospital's long-term investment in creating a Department of Neuroscience within the Boonshoft School of Medicine. A national department chair search is underway. According to the fall 2010 *Vital Signs* article, "the institute will be the critical centerpiece for conducting neuroscience research, and will

promote ways to move the results of that research directly from the laboratory to the bedside, providing outstanding neurological clinical care to the community and creating a clinical and research enterprise that will be pivotal for the region's economic recovery."

Births

Nathan Edward Williams, III
April 20, 2010
9 pounds, 21 inches
Nathan and Melissa Williams

Jacob Stouffer
June 10, 2010
8 pounds, 20.5 inches
Mark and Melissa Stouffer

Liam Robert Cripe
December 30, 2010
7 pounds, 13 oz, 20.5 inches
Liz Dulaney-Cripe and Ben Cripe



PLASTIC SURGERY



The Wright State University Boonshoft School of Medicine Division of Plastic Surgery enters its fifth year of existence with renewed energy and significant change. While our previous residency program coordinator, Taunia Robinson, was recruited to the Grandview Medical Center Medical Education Department, Nancy Bates has done a terrific job in filling the big shoes Taunia left behind. Additionally, Andrea Hoffman, Ph.D., will be leaving to do a postdoctoral fellowship at the University of Dayton, and Ryan Shapiro, our clinical research coordinator, will be entering Wright State University Boonshoft School of Medicine next year after completing his master's degree.

We are in the process of transferring our lab equipment currently housed at Wright State's main campus to the Miami Valley Hospital campus. We are continuing our adipose stem cell culture work, and relocating the lab is essential to improving resident knowledge and experience in basic science and translational research.

Our faculty continues to be bolstered by our outstanding and active voluntary clinical faculty, in particular William C. Rigano, M.D., Steven P. Schmidt, M.D., Matthew J. Fox, M.D., Todd L. Hicks, M.D., and Robert G. Chami, M.D., Special mention should be given to our subspecialty faculty as well: Ronald E. Warwar, M.D., A. Reza Miremadi, D.D.S., M.D., Chris J. Danis, M.D., Rannie Alsamkari, M.D., and Peter S. Barre, M.D.

Our residents continue to be a diverse group with outstanding talents in and out of the operating room. Our former resident, Todd Hicks, is doing great in private practice and is ready to take the ABPS certifying exam. Parviz Goshtasby has moved to Newport Beach, California, to pursue private practice.

The last site visit went extremely well. Our Plastic Surgery Residency Program is now fully accredited with a five-year term. Our division will be undergoing a change in format from a coordinated 3+3 format to a six-year plastic surgery format with a slight curriculum change.

In summary, the recent changes to the plastic surgery division promise continued growth and success now as well as into the future.

—R. Michael Johnson, M.D.

New Plastic Surgery Residency Coordinator

This past June, the Division of Plastic Surgery welcomed Nancy L. Bates as the new residency coordinator. Nancy previously served as the medical education coordinator for the Wright State University Boonshoft School of Medicine Department of Family Medicine.

Taunia Robinson, BS/BA, who joined Grandview Medical Center's Medical Education Department, has worked for Dr. Johnson and the division for the past 10 years. Taunia was honored at the June 2010 graduation ceremony with the Gregory E. Maupin Chief's Award for Outstanding Contributions to Plastic Surgery. We wish Taunia well in her new endeavor as we welcome Nancy to the Division of Plastic Surgery.



Graduation



Dayton Country Club June 19, 2010

The Division of Plastic Surgery enjoyed a graduation celebration in honor of 2010 graduate, Parvis H. Goshtasby, M.D., who has entered private practice in Newport Beach, California. Dr. Goshtasby earned a bachelor's in biochemistry before receiving his M.D. from Tufts University School of Medicine in Boston. He spent three years in general surgery residency training at Baystate Medical Center in Springfield, Massachusetts, completing his training at York

Hospital in York, Maine. He completed a hand surgery fellowship at the State University of New York at Buffalo before joining our division in 2007.

Division of Plastic Surgery Awards

Outstanding Teaching Award –
William C. Rigano, M.D.

Academic Achievement Award –
Salim N. Mancho, D.O.

Mentor Appreciation Award –
R. Michael Johnson, M.D.

Gregory E. Maupin Chief's Award for Outstanding Contributions to Plastic Surgery – Taunia Robinson, BS/BA

Plastic Surgery Births & Weddings

Kiersten Leigh

February 4, 2010

9 pounds, 11 ounces, 21 inches
Benjamin and Michelle Monson

M. Colin Rymer and Anna Halley Zivkovich

September 2010

Trinity Episcopal Church
Parkersburg, WV

RESIDENCY UPDATE

Guest Speakers

January 19, 2010

William C. Rigano, M.D.

Advanced Breast & Cosmetic Surgery, Inc., Kettering
Clinical Assistant Professor, Division of
Plastic Surgery
Wright State University Boonshoft School
of Medicine, Dayton
Out of Africa, mission trip

April 20-21, 2010

Andrea Hoffmann, Ph.D.

Research Assistant Professor, Division of
Plastic Surgery
Wright State University Boonshoft School of
Medicine, Dayton
*Stem cell research general overview and applied
stem cell research in the division of plastic surgery,
department of orthopaedic surgery, sports medicine
and rehabilitation*

Salim N. Mancho, D.O.

Plastic Surgery Resident, Division of Plastic Surgery
Wright State University Boonshoft School of
Medicine, Dayton
*Analysis of a wound matrix combination therapy
with human adipose tissue-derived stem cells for
advancement of bone fracture healing*

Drew Nedderman, B.S.

Graduate Student, Division of Plastic Surgery
Wright State University Boonshoft School of
Medicine, Dayton
*Human adipose tissue-derived mesenchymal stem cells
(ASC) as anti-cancer therapy for melanoma*

Edwin G. Wilkins, M.D.

Professor, Division of Plastic Surgery
University of Michigan, Ann Arbor

- *Outcomes research in post mastectomy*
- *Refinements in autogenous tissue breast reconstruction*
- *Prevention of postoperative venous thrombolism in plastic surgery patients*

July 20, 2010

Christopher B. Gordon, M.D.

Clinical Assistant Professor, Division of Plastic Surgery
University of Cincinnati College of Medicine,
Cincinnati
Facial cosmetic surgery and body contouring surgery

October 19, 2010

Jon Mendelsohn, M.D.

Medical Director
Advanced Cosmetic Surgery & Laser Center,
Cincinnati
Rhinoplasty

Current Residents



Salim Mancho, M.D.

Ohio University College of
Osteopathic Medicine,
Columbus



M. Colin Rymer, M.D.

West Virginia University
School of Medicine,
Morgantown, WV



Benjamin Monson, M.D.

Uniformed Services
University of Health
Sciences

F. Edward Herbert School of Medicine,
Bethesda, MD

UPCOMING EVENTS

Match Day

March 17, 2011

Dayton Plastic Surgery Society Meeting

Dayton Country Club, April 19-20, 2011

Michael W. Neumeister, M.D.

Chair & Program Director, Division of Plastic
Surgery
Southern Illinois University School of Medicine,
Springfield

Division of Plastic Surgery Graduation

NCR Country Club, June 18, 2011

Dayton Plastic Surgery Society Meeting

Dayton Country Club, July 19, 2011

Frank Barone, M.D., F.A.C.S

Frank Barone, M.D. Plastic Surgery & evol
Medical Aesthetics
Clinical Professor of Surgery and
Otolaryngology, Medical College of Ohio

**American Society of Plastic Surgeons
Annual Meeting**

Denver, Colorado, September 23-27, 2011

Dayton Plastic Surgery Society Meeting

Dayton Country Club, October 18, 2011

David A. Billmire, M.D., F.A.C.S., F.A.A.P.

Associate Professor, Department of Pediatrics,
University of Cincinnati
Director of Plastic Surgery, Cincinnati Children's
Hospital Medical Center

**Plastic Surgery Resident Interviews
January 2012**

Scholarly Activity

Publications

- Azhar M, Yin M, Bommireddy R, Duffy JJ, Yang J, Pawlowski SA, **Boivin GP**, Engle SJ, Sanford LP, Grisham C, Singh RR, Babcock GF, Doetschman T. Generation of mice with a conditional allele for transforming growth factor beta 1 gene. *Genesis*. 2009;47(6):423-31.
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 - Presented at the Association of Program Directors in Internal Medicine Annual Meeting, Baltimore, MD and at the Central Group on Educational Affairs, Association of American Medical Colleges Annual Meeting, Chicago, IL, April 2010.
 - Journal of Graduate Medical Education. 2010;2:236-41.
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- Gage F. The orthopaedic PAC: advocacy in action (featuring **Konstantakos EM**). *AAOS Now*. 2010 Oct;4(10).
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 - Presented at the Society of University Surgeons Annual Meeting, San Antonio, TX, February 2010.
 - Published in *Surgery*. 2010;148:178-80.
- Heiney J, **Barnett MD**, Vrabec G, Schoenfeld A, Bagi A, Njus G. Distal femoral fixation: a biomechanical comparison of Trigen retrograde intramedullary (IM) nail, dynamic condylar screw (DCS), and locking compression plate (LCP) condylar plate. *Journal of Trauma: Injury, Infection & Critical Care*. 2009 Feb;66(2):443-9.
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Collinge CA, **Prayson MJ**. Open reduction and internal fixation of the pilon. In Wiesel S (ed.), *Operative Techniques in Orthopaedic Surgery (Vol.1)*. Philadelphia:Lippincott Williams & Wilkins; 2011:671-86.

Crosby LA, **Noyes M**, **Kleinhenz B**, **Markert RJ**. Functional and radiographic long-term outcomes of hemiarthroplasty for proximal humerus fractures. *Journal of Shoulder and Elbow Surgery*.

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- In press 2010.

Gayton JC, Sensiba PR, **Venkatarayappa I**, Imbrogno BF, **Tsatalis J**, **Prayson MJ**. The effects of magnetic resonance imaging on surgical staples: an experimental analysis. *J Trauma*. Accepted 2010.

Horodyski MB, Di Paola C, **Di Paola MJ**, Conrad B, Del Rossi G, Sawers A, Bloch A, Rechline GR II. Validation of a modified technique for shoulder pad removal in the spine injured football player. *American Journal of Sports Medicine*. Accepted 2009.

Kumar G, **Markert RJ**, Patel R. Assessment of hospice patients' goals of care at the end of life. *American Journal of Hospice and Palliative Medicine*. In press.

Lee M, Choh AC, Williams KD, Schroeder V, Dyer TD, Blangero J, Cole SA, Chumlea WC, **Duren DL**, Sherwood RJ, Siervogel RM, Towne B, Czerwinski SA. Genome-wide linkage scan for quantitative trait loci underlying normal variation in heel bone ultrasound measures. *Journal of Nutrition, Health and Aging*. In press.

Lee M, Nahhas RW, Choh AC, Demerath EW, **Duren DL**, Chumlea WC, Sherwood RJ, Towne B, Siervogel RM, Czerwinski SA. Longitudinal changes in calcaneal quantitative ultrasound measures during childhood. *Osteoporosis International*. In press.

Markert RJ, Solomon G. OnabotulinumtoxinA for treatment of chronic migraine – breaches of scientific practice. *Headache*. Letter to the editor. In press.

Markert RJ. Getting started on your research: practical advice for medical educators. *Teaching and Learning in Medicine*. In press 2010 Fall;22(4).

Perel V, **Goswami T**. Instability of circular shape of thin elastic-plastic rotating disk with central hole on rigid shaft. *Structural Engineering and Mechanics: An International Journal*. Accepted.

Perel V, **Goswami T**. Probabilistic analysis of wear of polymer material used in medical implants. *International Journal of Damage Mechanism*. IJDM-10-009, accepted.

Peters PG, **Herbenick MA**, Anloague P, **Markert RJ**, **Rubino LJ**. Knee range of motion: the reliability and agreement of three measurement methods. *American Journal of Orthopedics*. Accepted pending final revisions, September 2010.

Sherwood RJ, **Duren DL**, Mahaney MC, Blangero J, Dyer TD, Cole SA, Czerwinski SA, Chumlea WC, Siervogel RM, Choh AC, Nahhas RW, Lee M, Towne B. A genome-wide linkage scan for quantitative trait loci influencing the craniofacial complex in humans (Homo sapiens). In press.

Simon K, **Goswami T**. Improving anodes for lithium ion batteries. *Metallurgical and Materials Transaction*. Accepted, in print.

Submitted for Publication

Anloague P, Turri J, Flowers S, Heller B, **Herbenick MA**. The effect of patellar taping on patellar position as determined by fluoroscopy in patients with patellofemoral pain syndrome. Submitted.

Crites G, Richardson WS, **Markert RJ**, Goggans S. Psychometrics of an EBM test: three group validation. Submitted to *Medical Education*.

Crites G, Richardson WS, Stolfi A, Sydelko B, **Markert RJ**. A clinical decision making course was successfully integrated into a medical school's preclinical, systems-based curriculum. Submitted to *Medical Education*.

Dalstrom DJ, Patel V, **Goswami T**, **Markert RJ**, **Prayson MJ**. The protective effect of locking screw placement on non-locking screw insertion torque in an osteoporotic supracondylar femur fracture model. Submitted 2010.

DeGroat M, Kumar D, **Markert RJ**, Martinez A. The Ripstein experience of a private practice. Submitted.

Dib PS, Hicks TL, Quan R, **Johnson RM**, **Hoffmann A**. Role of selective AT2 receptor activation in melanoma growth. Submitted to *Molecular and Cellular Biochemistry*, April 2010.

Dudley ES, **Boivin GP**. Two cases of gastric volvulus in guinea pigs: comparison with other species.

- To be presented at the American Veterinary Medical Association Annual Meeting, St. Louis, MO, July 2011.
- JAALAS*. Submitted 2010.

Dundon J, **Lawless MW**, **Markert RJ**. Correlation between patella and patellar tendon width: an anatomic study. Submitted to *Clinical Anatomy*.

Martin D, Mathew R, **Markert RJ**, Skabelund L. Obesity effects on ulcerative colitis. Submitted.

Peters PG, **Laughlin RT**, **Markert RJ**, Randall KT, **Prayson MJ**. Time of exposure to C-arm drape contamination. Submitted to *American Journal of Orthopedics*. Submitted to J Trauma 2010.

Peters PG, **Rubino LJ**, **Herbenick MA**, **Lawless MW**, Anloague P. Inter-rater and intra-rater reliability of hyperextension and maximal flexion: analysis of visual estimation compared to radiographic measurements. Submitted.

Quraishi M, Mathew R, Lowes A, Bashir C, **Markert RJ**. The frequency of venous thromboembolism (VTE) prophylaxis and the impact of standardized guidelines for VTE prevention: is a computer based approach enough? Submitted to *Southern Medical Journal*.

Shaw JM, Hunter SA, **Coffey MJ**, Locus GS, **Gayton JC**, **Stouffer MH**, **Boivin GP**, **Prayson MJ**. Repeated freeze-thaw cycles do not alter the biomechanical properties of fibular allograft bone.

- Poster presented at the Orthopaedic Research Society Annual Meeting, New Orleans, LA, March 2010.
- Presented at the Ohio Orthopaedic Society Annual Meeting, Columbus, OH, May 2010.
- Presented at the Annual Technical Meeting of the Society of Engineering Science (SES), University of Iowa, Ames, IA, October 2010.
- Submitted for publication 2010.

Tchorz K, Chandra M, **Markert RJ**, Healy M, Anderson H, Ekeh P, Saxe J, Walusimbi M, Woods R, Dominguez K, McCarthy M. Comparison of hemodynamic measurements from invasive and non-invasive monitoring during early resuscitation. Submitted to *Journal of Trauma*.

Venkatarayappa I, Sensiba PR, **Binski JC**, **Laughlin RT**, **Prayson MJ**. A survey of patient opinions regarding the use of reprocessed external fixation components. Submitted 2010.

Wase A, Mirza Z, Innappathy A, Qureshi B, Kabir A, **Markert RJ**. Effect of spironolactone on ventricular arrhythmias in patients with left ventricular systolic dysfunction and implantable cardioverter-defibrillators.

- Presented at the Heart Failure Society of America Annual Meeting, San Diego, CA, September 2010.
- Submitted to Indian Heart Journal.

Presentations and Lectures

Barnett MD. Pedorthic management. Presented at the 2009 Prosthetic & Orthotics Course at the Department of Orthopaedic Surgery, Sports Medicine & Rehabilitation, Wright State University Boonshoft School of Medicine, Dayton, OH, February 2010.

Barnett MD. Lecture presented to MS-III orthopaedic surgery rotations at the Department of Orthopaedic Surgery, Sports Medicine & Rehabilitation, Wright State University Boonshoft School of Medicine, Dayton, OH, May and November 2010.

Barnett MD. Presented foot and ankle OITE review at the Department of Orthopaedic Surgery, Sports Medicine & Rehabilitation, Wright State University Boonshoft School of Medicine, Dayton, OH, November 2010.

Barnett MD. Musculoskeletal/integument lecture. Presented at the Department of Orthopaedic Surgery, Sports Medicine & Rehabilitation, Wright State University Boonshoft School of Medicine, Dayton, OH, December 2010.

Binski JC. Taylor Spatial Frame description, components, indications, chronic, rings first, residual and total residual correction • Taylor Spatial Frame origin, corresponding point, reference fragments and parameters with software application • Taylor Spatial Frame planning, fracture, bisector, CORAgin, corresponding point methods • Distal reference, rotary offset and tips and tricks. Presented at the Taylor Spatial Frame Course, Sao Paulo, Brazil, December 2009.

Binski JC. Taylor Spatial Frame and foot and ankle part I hindfoot. Presented at the 4th Theoretical Practical Course of Bone Lengthening and Deformity Reconstruction, Santos, Brazil, December 2009.

Binski JC. Taylor Spatial Frame planning concepts • Taylor Spatial Frame in tibial fractures. Presented at the 4th Theoretical Practical Course of Bone Lengthening and Deformity Reconstruction, Rio de Janeiro, Brazil, December 2009.

Binski JC. Tibial infected nonunion • Introductory Taylor Spatial Frame workshop/lab. Presented at the 4th Theoretical Practical Course of Bone Lengthening and Deformity Reconstruction, Buzios, Brazil, December 2009.

Binski JC. Taylor Spatial Frame lengthening and bone transport • Taylor Spatial Frame foot and ankle part II • Correction of deformities: midfoot and forefoot • Introductory Taylor Spatial Frame workshop/lab. Presented at the 4th Theoretical Practical Course of Bone Lengthening and Deformity Reconstruction, Angra dos Reis, Brazil, December 2009.

- Binski JC.** Current trends in orthopaedic trauma. Presented at the Ohio State Assembly of Surgical Technologists Meeting, Columbus, OH, March 2010.
- Binski JC.** External fixation using the Taylor Spatial Frame in acute fracture management. Presented at Grand Rounds, Department of Orthopaedics, West Virginia University, Morgantown, WV, April 2010.
- Binski JC.** History review of external fixation • Overview foot and ankle indications • Equinus frames lab. Presented at the Essentials of External Fixation Course, Denver, CO, May 2010.
- Binski JC.** External fixation: complications are the rule not the exception • History of the external fixator • Corrections of post traumatic foot deformities • Cadaver with external fixation lab • Equinus contracture • Tibial lengthening • Femoral deformity correction. Presented at the Bochum Deformity Correction Course, Bochum, Germany, May 2010.
- Binski JC.** Advanced Taylor Spatial Frame planning: CORAgin method • Trauma application • Taylor Spatial Frame and distal femur deformity lab. Presented at the 12th Vienna Taylor Spatial Frame Course, Vienna, Austria, May 2010.
- Binski JC.** Middle tibia application • Foot application • Case discussions – foot focus • Billing and coding • Foot lab. Presented at the Advanced Taylor Spatial Frame Course, New York, NY, June 2010.
- Binski JC.** New advances and changes to the Taylor Spatial Frame and software • Planning methods for the Taylor Spatial Frame • Taylor Spatial Frame for acute trauma • Managing nonunions with the Taylor Spatial Frame • Peri/intraarticular fractures • Applications of the Taylor Spatial Frame to the humerus • Application of the Taylor Spatial Frame to forearm/wrist • Overview of different foot applications for the Taylor Spatial Frame • Tips and tricks and preventing difficulties: trauma perspective • Cable bone transport workshop • Butt frame and software planning workshop. Presented at the 1st Taylor Spatial Frame Masters Course, Umzumbe, Kwazulu, South Africa, August 2010.
- Binski JC.** Bone transport with the Taylor Spatial Frame • Taylor Spatial Frame lab • Introduction to Taylor Spatial Frame software lab. Presented at the 20th Annual Baltimore Limb Deformity Course, Baltimore, MD, September 2010.
- Binski JC.** Pitfalls in limb lengthening. Presented at the 20th Annual Baltimore Limb Deformity Post-Course, Baltimore, MD, September 2010.
- Blackmore M, Goswami T.** Using finite difference methods to develop the probability of neck injury. Presented at the Annual Technical Meeting of the Society of Engineering Science (SES), University of Iowa, Ames, IA, October 2010.
- Boivin GP.** Venomous snakes in research facilities. Presented at the Southern Ohio Branch of the American Association for Laboratory Animal Science Annual Meeting, 2009.
- Di Paola MJ.** Total elbow arthroplasty. Presented at the Resident Teaching Conference, Department of Orthopaedic Surgery, Sports Medicine & Rehabilitation, Dayton, OH, March 2010.
- Di Paola MJ.** Arthritis: operative and nonoperative treatment strategies. Presented at the Middletown Senior Center, Middletown, OH, April 2010.
- Di Paola MJ.** Rotator cuff tears: management and decision making. Presented at the Middletown YMCA, Middletown, OH, October 2010.
- Dyment NA, **Boivin GP**, Galloway MT, Shearn JT, Greiwe RM, Kenter K, Hasan SS, Butler DL. Collagenase vs. prostaglandin-E2 for inducing degenerative changes in the rabbit patellar tendon. Presented at the Orthopaedic Research Society Annual Meeting, Las Vegas, NV, February 2009.
- Edwards KB, Rubino LJ, Herbenick MA, Goswami T.** Distal third clavicle fixation: A biomechanical evaluation of fixation. Presented at the Annual Technical Meeting of the Society of Engineering Science (SES), University of Iowa, Ames, IA, October 2010.
- Ellis CJ.** Medical problems in athletes. Presented at the Sports Grand Rounds, Miami Valley Hospital, Dayton, OH, January 2010.
- Ellis CJ.** Concussions. Presented at the Orthopaedics Sports Symposium, Department of Orthopaedic Surgery, Sports Medicine & Rehabilitation, Wright State University Boonshoft School of Medicine, Dayton, OH, July 2010.
- Ellis CJ.** Common stress fractures. Presented at Sports Grand Rounds, Miami Valley Hospital, Dayton, OH, September 2010.
- Ellis CJ.** Musculoskeletal workshop. Presented monthly at the Department of Family Medicine, Wright State University Boonshoft School of Medicine, June-December 2010.
- Gayton JC, Rubino LJ, Rich MM, Wang Q, Boivin GP.** Rabbit supraspinatus motor endplates are unaffected by a rotator cuff tear.
- Presented at the Orthopaedic Research Society Annual Meeting, Long Beach, CA, January 2011.
 - To be presented at the Mid-America Orthopaedic Association Annual Meeting, Tucson, AZ, April 2011.
- Gayton JC, Stouffer MH, Venkatarayappa I, George A, Prayson MJ.** Assessment of periprosthetic fracture risk with short and long cephalomedullary nails: a biomechanical study. To be presented at the Mid-America Orthopaedic Association Annual Meeting, Tucson, AZ, April 2011.
- Goswami T.** Symposium Co-Organizer for the Orthopaedic Bioengineering – Nano to Device Level, Society of Engineering Science Annual Meeting, University of Illinois-UC, Champaign, IL, October 2008 and Iowa State University, Ames, IA, October 2010.
- Herbenick MA.** Shoulder instability: sport specific considerations in athletic shoulder instability.
- Presented at the Ohio State AST Annual Meeting, Dayton, OH, March 2009.
 - Presented at the 2010 Sports Symposium, Upper Valley Medical Center for Sports Medicine, Troy, OH, February 2010.
- Herbenick MA.** Radiographic correlation of knee range of motion assessed on routine physical examination. Presented at the Mid-America Orthopaedic Association Annual Meeting, Amelia Island, FL, April 2009.
- Herbenick MA.** Orthopaedic surgery: experience and path of my profession. Presented at the University of Dayton Premedicine Program/Visiting Professor, Dayton, OH, July 2009.
- Herbenick MA.** Sports injuries. Presented at the Dayton Area Orthopaedic Nurses Meeting, Dayton, OH, September 2009.
- Herbenick MA.** Treatment of the massive rotator cuff tear. Presented at the Sports Medicine Grand Rounds, Miami Valley Hospital, Dayton, OH, February 2010.
- Herbenick MA.** Knee bracing: clinical indications and use in the young athletic population. Presented at the Orthotics and Prosthetics Symposium, Department of Orthopaedic Surgery, Sports Medicine & Rehabilitation, Wright State University Boonshoft School of Medicine, Dayton, OH, March 2010.
- Herbenick MA.** Lecture to the MS-III orthopaedic surgery rotations. Department of Orthopaedic Surgery, Sports Medicine & Rehabilitation, Dayton, OH, March 2010.
- Herbenick MA.** Approaches and rehab for shoulder arthroplasty patients.
- Presented at Sports Grand Rounds, Miami Valley Hospital, Dayton, OH, April 2010.
 - Presented at the Shoulder Symposium, Greene Memorial Hospital, Xenia, OH, June 2010.
- Herbenick MA.** Platelet rich plasma. Presented at the Sports Symposium, Department of Orthopaedic Surgery, Sports Medicine & Rehabilitation, Dayton, OH, July 2010.
- Hoffmann A.** Stem cell research general overview and applied stem cell research in the Division of Plastic Surgery, Department of Orthopaedic Surgery, Sports Medicine & Rehabilitation. Presented at the Dayton Plastic Surgery Society Meeting, Dayton, OH, April 2010.
- Isaak E, Saxe J, Slapak C, Tchorz K, **Markert RJ**, McCarthy M. Paradigm shifts on the roles of cell-saver and plasma in massive transfusion practices. Presented at the American Association of Blood Banks Annual Meeting, Baltimore, MD, October 2010.
- Jain A, Shearn JT, Gooch CG, Galloway MT, **Boivin GP**, Powell HM, Boyce ST, Butler DL. Effects of mechanical stimulation of MSC-seeded collagen-GAG constructs on construct and repair biomechanics. Presented at the Orthopaedic Research Society Annual Meeting, Las Vegas, NV, February 2009.
- Kinneberg KRC, Galloway MT, Shearn JT, Gooch C, **Boivin GP**, Butler DL. Autograft repair of central-third PT defect is biomechanically and histologically inferior to normal and TE repair. Presented at the Orthopaedic Research Society Annual Meeting, Las Vegas, NV, February 2009.
- Krishnamurthy AB.** Integrated musculoskeletal clinics. Presented at the Combined VA Rheumatology and Orthopedic Spring Meeting, Portland, OR, May 2009.
- Krishnamurthy AB.** Common problems encountered by coaches. Success from an outpatient team. The role of a coach. Presented at the VISN 18 SR Coaching College, Phoenix, AZ, September 2009 and Albuquerque, NM, October 2009.
- Krishnamurthy AB.** The role of a coach: ground rules and expectations. Presented at the Access Partnership Learning Session 2, Tampa, FL, December 2009.
- Krishnamurthy AB.** Disabilities of the knee. Presented at the Musculoskeletal Forum, Veterans Benefit Administration, Washington, DC, August 2010.
- Krishnamurthy AB.** Knee arthroscopy simulation demonstration lecture at the SIMLEARN Meeting, New Orleans, LA, September 2010.
- Laughlin RT.** The correlation between orthopaedic and plastic surgery – Q&A. Presented at the Dayton Area Medical Education Associates Meeting, Dayton, OH, May 2010.
- Laughlin RT.** Lab table instructor. Distal radius fracture lab. Facilitated at the Orthopaedic Trauma Association Annual Meeting, Baltimore, MD, October 2010.
- Lawless MW.** Patella dislocations. Presented at the Sports Medicine Grand Rounds, Department of Orthopaedic Surgery, Sports Medicine & Rehabilitation, Wright State University Boonshoft School of Medicine, Dayton, OH, February 2010.
- Lawless MW.** My aging knee. Presented at the Health Seminar, Miami Valley South, Dayton, OH, April 2010.
- Lawless MW.** ACL tears. ACL surgery. Presented at the 2010 Wright State Physicians, Sports Medicine Symposium, Department of Orthopaedic Surgery, Sports Medicine & Rehabilitation, Wright State University Boonshoft School of Medicine, Dayton, OH, July 2010.
- Lawless MW.** Joint health. What to expect from a hip or knee replacement. Presented at the Miami Valley Hospital Mall Walkers Program, Dayton, OH, August 2010.
- Lawless MW.** Lecture to the MS-III orthopaedic surgery rotations. Department of Orthopaedic Surgery, Sports Medicine & Rehabilitation, Wright State University Boonshoft School of Medicine, Dayton, OH, September 2010.
- Lawless MW.** ACL surgeries. Presented at the Sports Grand Rounds, Miami Valley Hospital, Dayton, OH, October 2010.

- Mabe I, **Goswami T**. Effects of anthropometric geometry on the outcome of finite element models of vertebral endplates. Presented at the Annual Technical Meeting of the Society of Engineering Science (SES), University of Iowa, Ames, IA, October 2010.
- Makola M, **Goswami T**. Hip implant interfacial motion, a finite element analysis. Presented at the Annual Technical Meeting of the Society of Engineering Science (SES), University of Iowa, Ames, IA, October 2010.
- Mehmood M, **Markert RJ**, Bodenmiller B, Chandra M. The metabolic syndrome predicts advanced subclinical atherosclerosis as assessed by coronary calcium.
- Presented at the World Congress on Insulin Resistance, Diabetes and CVD Annual Meeting, Los Angeles, CA, November 2010.
 - Diabetes and Vascular Disease Research. Submitted.
- Patel D, **Goswami T**. Analyzing range of motion in total hip arthroplasty. Presented at the Annual Technical Meeting of the Society of Engineering Science (SES), University of Iowa, Ames, IA, October 2010.
- Prayson MJ**. Advanced techniques for IM nailing/Invited Lecturer. Presented at Smith & Nephew's KLEOS Medical Education Forum, Cincinnati, OH, May 2010.
- Prayson MJ**. Orthopaedic on call coverage for hospital emergency departments – opportunity or obligation? Invited Panel Participant (Topic – Trauma Transfers) at the Ohio Orthopaedic Society Annual Meeting, Columbus, OH, May 2010.
- Prayson MJ**. The effect of locking plugs on the strength of a locking compression plate construct in an osteoporotic model.
- Presented at the Ohio Orthopaedic Society Annual Meeting, Columbus, OH, May 2010.
 - Poster presented at the American Academy of Orthopaedic Surgeons Annual Meeting, San Diego, CA, February 2011.
- Prayson MJ**. Pilon fractures. Proximal femur anatomy and fracture overview. Clavicle and proximal humerus fractures. Presented at Smith & Nephew's Ohio Valley Regional Trauma & Recon Training Meeting, Cincinnati, OH, June 2010.
- Prayson MJ**. Faculty, 16th annual comprehensive fracture course for residents presented at the Orthopaedic Trauma Association Annual Meeting, Baltimore, MD, October 2010.
- Prayson MJ**. Fractures of the tibial plateau.
- Featured Surgeon in Smith & Nephew's Bicondylar Tibial Plateau Fracture Case Study brochure featuring the PERI-LOC and PERI-LOC VLP plating systems, and the JET-X Bar external fixator system, manufacturer's brochure printed June 2010.
 - Featured Expert for Smith & Nephew's Ask the Expert Peri-Loc VLP International Sales Training Webcast, October 2010.
- Rubino LJ**. Ligament knee injuries. Presented at the Sports Grand Rounds, Miami Valley Hospital, Dayton, OH, March 2010.
- Rubino LJ**. Sports medicine session/Moderator at the Mid-America Orthopaedic Association Annual Meeting, Amelia Island, FL, April 2010.
- Rubino LJ**. Management of rotator cuff tears. Presented at the Physical Therapy Seminar, Greene Memorial Hospital, Xenia, OH, June 2010.
- Rubino LJ**. Rotator cuff tears. Presented at the Shoulder Symposium, Greene Memorial Hospital, Xenia, OH, June 2010.
- Rubino LJ**. Cervical spine trauma. Presented at the Orthopaedic Sports Symposium, Department of Orthopaedic Surgery, Sports Medicine & Rehabilitation, Wright State University Boonshoft School of Medicine, Dayton, OH, July 2010.
- Rubino LJ**. Lecture to the MS-III orthopaedic surgery rotations. Department of Orthopaedic Surgery, Sports Medicine & Rehabilitation, Wright State University Boonshoft School of Medicine, Dayton, OH, July 2010.
- Schweitzer S, **Kundrat M**, **Goswami T**. Statistical analysis of dimensional anatomy of the vertebral body in the cervical spine of Chinese Singaporeans and projection on U.S. Presented at the Annual Technical Meeting of the Society of Engineering Science (SES), University of Iowa, Ames, IA, October 2010.
- Shaw JM, Christopher RA, Palmer R, Nichols A, Turner AS, **Boivin GP**, Hunter SA. Biomechanical comparison of supercritical CO2 treated and gamma irradiated tendon allografts with autografts. Presented at the Orthopaedic Research Society Annual Meeting, New Orleans, LA, March 2010.
- Vourazeris JD**, **Lawless MW**, **Markert RJ**, **Burleson AP**, **Boivin GP**. Semitendinosus muscle fatty infiltration following tendon resection in rabbits.
- Presented at the AJSM Midwest Meeting, 2010.
 - Presented at the Orthopaedic Research Society Annual Meeting, Long Beach, CA, January 2011.
 - To be presented at the Mid-America Orthopaedic Association Annual Meeting, Tucson, AZ, April 2011.
- Wase A, Quraishi B, Kabir A, Sacksteter S, Shaffer H, **Markert RJ**. Creatinine and defibrillation thresholds among patients with biventricular ICD: is there a correlation? Presented at the Heart Failure Society of America Annual Meeting, San Diego, CA, September 2010.
- Whitney AG, **Goswami T**. Mechanical comparison of cadaver femurs implanted with various intramedullary nails. Presented at the Annual Technical Meeting of the Society of Engineering Science (SES), University of Iowa, Ames, IA, October 2010.

Posters

- Chou RM**, **Nedderman DM**, **Goshtasby PH**, **Johnson RM**, **Hoffmann A**. Differentiation of human adipose tissue-derived mesenchymal stem cells (ASCs) into hematopoietic lineages as anti-cancer therapy for melanoma.
- Poster presented at the Central Research Forum, Wright State University Boonshoft School of Medicine, Dayton, OH, March 2009.
 - Poster presented at the Ohio Valley Society of Toxicology Meeting, Mason, OH, November 2009.
 - Poster presented at the International Federation of Adipose Therapeutics & Science (IFATS) Annual Conference, Dallas, TX, October 2010.
- Coffey MJ**, **Laughlin RT**. Management of calcaneus fractures with bone loss. Poster presented at the American Orthopaedic Foot & Ankle Society Summer Meeting, National Harbour, MD, July 2010.
- Goshtasby PH**, **Chou RM**, **Shapiro RL**, **Johnson RM**, **Hoffmann A**. In vitro compatibility of Integra™ flowable wound matrix with human adipose tissue-derived stem cells for tissue engineering. Poster presented at the DAGMEC Resident Research Forum, Dayton, OH, April 2009.
- Herbenick MA**. Correlative outcome measures effecting maximum pitching velocity in collegiate baseball pitchers. Glenohumeral rotational ROM and lower extremity flexibility in collegiate level baseball players. Posters presented at the 2009 Ohio Physical Therapy Association Meeting, Columbus, OH, September 2009.
- Nedderman DM**, **Chou RM**, **Goshtasby PH**, **Johnson RM**, **Hoffmann A**. Tissue specific effects of adipose stem cells (ASC) and melanoma tumor environment. Poster presented at the International Federation of Adipose Therapeutics & Science (IFATS) Annual Conference, Dallas, TX, October 2010.

Awards and Honors

- Krishnamurthy AB**. Selected for the Veterans Affairs 2011 Health Care Leadership Development Program, 2010.
- Lawless MW**. Excellence in Medical Education & Research – Junior Faculty, Academy of Medicine, Wright State University Boonshoft School of Medicine, Dayton, OH, 2010.
- Markert RJ**. Faculty Mentor Award, Wright State University Boonshoft School of Medicine, Dayton, OH, 2010.
- Prayson MJ**. Nominated and selected to the Physician Wall of Excellence, Miami Valley Hospital, Dayton, OH, 2010.

Grants and Research

- Boivin GP**. Mammotome biopsy study.
- Boivin GP**. Study of the action of venom protein on the proliferation of prostate cancer cells.
- Boivin GP**, **Butler D**. Functional tissue engineering of tendon repair.
- Boivin GP**, **Doetschman T**. Role of TGFβ1 in T-cell homeostasis and tolerance.
- Boivin GP**, **Laughlin RT**, **Hunter S**. Allograft assisted orthopaedic tissue repair.
- Boivin GP**, **Mancho SN**. Human adipose tissue-derived stem cell revitalization of nonviable tendon grafts by mechanical paddle blending.
- Dulaney-Cripe EM**. A comparative analysis of stability of initial management of humerus fractures.
- Duren DL**, **Chumlea WC**, **Sherwood RJ**, **Nahhas R**, **Khamis HJ**. Updating skeletal maturity methods for U.S. children.
- Duren DL**, **Sherwood RJ**. Genetic architecture of the human craniofacial complex.
- Duren DL**, **Sherwood RJ**. Genetic architecture of the human dentognathic complex.
- Duren DL**, **Siervogel RM**, **Czerwinski SA**, **Choh A**, **Chumlea WC**, **Lee M**. Adiposity disease risk factors, and lifetime health.
- Duren DL**. Genetic and other influences on pediatric skeletal health.
- Duren DL**, **Siervogel RM**, **Towne B**. Genetic, somatic and maturational influences on pediatric skeletal health.
- Goswami T**. Cervical injury, risk assessment and new device design.
- Goswami T**. Gas turbine engine material life support.
- Goswami T**. Turbine engine component design.
- Goswami T**. Turbine engine retirement for cause (RFC) component implementation: phase I.
- Hoffmann A**. Human adipose tissue-derived stem cell revitalization of nonviable tendon grafts.
- Hoffmann A**. Integra Life Science
- Markert RJ**. IPA Services: VAMC
- Prayson MJ**. DAGMEC Grant.
- Prayson MJ**. Fluid lavage of open wounds (FLOW): a multi-center, blinded, factorial trial comparing alternative irrigating solutions and pressures in patients with open fractures.



UPCOMING EVENTS

Orthopaedic Surgery Alumni Reception

American Academy of Orthopaedic Surgeons
Sheraton Marina, San Diego, CA
February 18, 2011, 7:00 p.m.

Orthopaedic Trauma Fellowship Match, March 1, 2011

Aaron G. Rosenberg, M.D.

Professor, Department of Orthopaedic Surgery
Rush Medical College, Chicago
Dayton Orthopaedic Society
NCR Country Club, March 15, 2011, 6:30 p.m.

WSU Orthopaedic Grand Rounds, Weber 1813,
Miami Valley Hospital
March 16, 2011, 6:50 a.m.

Match Day, March 17, 2011

Alexander R. Vaccaro, M.D., Ph.D.

Professor, Department of Orthopaedic Surgery
Jefferson Medical College, Philadelphia
Dayton Orthopaedic Society, Dayton Country Club, May 19, 2011, 6:30 p.m.

Graduation Scientific Symposium – Spine
May 20, 2011, 7:30 a.m. - 3:00 p.m.

Ohio Orthopaedic Research and Innovation Day

Wright State University Campus
June 2, 2011

Graduation Dinner & Ceremony
June 18, 2011, NCR Country Club

Visiting Professor – Hand Surgery
Dayton Orthopaedic Society, Fall 2011

Holiday Party, December 8, 2011

Orthopaedic Surgery Resident Interviews, January 6-7, 2012

Dayton Orthopedic Medical Fund Contributions

The department appreciates all those who made tax-deductible contributions between January and December 2010 to the Dayton Orthopedic Medical Fund—a fund established to assist in training and educating our residents.

Gerard and Marilyn Dehner

Genzyme

Indiana University

Innovative Medical Group, LLC/Tom Conroy

Orion Physical Therapy Specialists

Ortho-McNeil-Janssen Pharma, Inc.

Orthopaedic Research and Education Foundation

Osteo Solutions/Craig Boisvert

Benjamin and Melissa Roelle

Salient Surgical Technologies, Inc.

Sanofi-Aventis/Laura Fazio

Smith & Nephew, Inc.

Jessica Smith

Synthes

The Ohio State University

University Physiatic Associates, Inc.

Zeev and Shira Walny



Faculty Named UD Flyer Team Physicians

Earlier this year, Michael A. Herbenick, M.D., and L. Joseph Rubino, III, M.D., were named team physicians for the University of Dayton Flyers athletics department. Dr. Herbenick, a UD alumni, and Dr. Rubino have also been involved with UD's Doctorate of Physical Therapy program.