

2011-2012
Summary of Scholarly Activities
Department of Surgery

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

Contreras CM, Choi EA, Abdalla EK. Hepatobiliary cancers. In: The M.D. Anderson surgical oncology handbook. 5th ed. Philadelphia, PA: Lippincott Williams & Wilkins Handbook Series; 2012. Chapter 12, p. 416-71.

Gonzalez RP, Cummings GR, Harlan SM, Mulekar MS, Rodning CB. EMS relocation in a rural area using a geographic information system can improve response time to motor vehicle crashes. J Trauma. 2011 Oct;71(14):1023-6.

Gunter JW 3rd, Simmons JD, Mitchell ME, Ahmed N. A solution to the decreased resident exposure to open operations in the era of minimally invasive surgery and restricted duty hours may be with organ procurement and transplantation surgery. J Surg Educ. 2012 Sep/Oct;65(5):575-9.

Howard D, Richards WO. Endoluminal therapy for gastroesophageal reflux disease. In: Murayama K, Chand B, Kothari SN, editors. Evidence-based approach to minimally invasive surgery. Woodbury, CT: Cine-Med publishers; 2012. Chapter 5, p. 30-6.

Nijhawan S, Martinez T, Wittgrove AC. Laparoscopic gastric bypass for the adolescent patient: long term results. Obes Surg. 2012 Sep;22(9):1445-9.

Richards WO. Morbid obesity. In: Townsend CM Jr, Beauchamp RD, Evers BM, Mattox KL, editors. Sabiston textbook of surgery. 19th ed. Philadelphia, PA: Elsevier Sanders; 2012. Chapter 15, p. 358-88.

Rodning KJ, Rodning SP, Rodning CB, Rodning CB. Keys to the kingdom: ritualism in the surgical disciplines. Abdom Surg. 2011 Winter/2012 Spring:p. 5-9.

Rondan A, Nijhawan S, Majid S, Martinez T, Wittgrove AC. Low anastomotic stricture rate after roux-en-y gastric bypass using a 21mm circular stapling device. Obes Surg. 2012 Sep;22(9):1491-5.

Rose MK, Cummings GR, Rodning CB, Brevard SB, Gonzalez RP. Is helicopter evacuation effective in rural trauma transport? Am Surg. 2012 Jul;78(7):794-7.

Rose MK, Rosal LM, Gonzalez RP, Rostas JW, Baker JA, Simmons JD, Frotan MA, Brevard SB. Clinical clearance of the cervical spine in patients with distracting injuries: it is time to dispel the myth. J Trauma. 2012 Aug;73(2):498-502.

Rostas JW, Dyess DL. Current operative management of breast cancer: an age of smaller resections and bigger cures. *Int J Breast Cancer*. 2012;2012:516417. Available from: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3262599/pdf/IJBC2012-516417.pdf>

Rostas JW, Mai TT, Richards WO. Gastric motility physiology and surgical intervention. *Surg Clin North Am*. 2011 Oct;91(5):983-99.

Schneider A, Rawat D, Weinstein S, Gupte S, Richards WO. Effects of laparoscopic roux-en-Y gastric bypass reduces elevated glucose-6-phosphate dehydrogenase activity in morbidly obese diabetic patients. *Surg Endosc*. 2012 Mar;26(3):823-30.

Simmons JD, Ahmed N, Donnellan KA, Schmiege RE Jr, Porter JM, Mitchell ME. Management of traumatic vascular injuries to the neck: a 7-year experience at a Level I trauma center. *Am Surg*. 2012 Mar;78(3):335-8.

Simmons JD. Is there a fungus among us: an update on diagnostic strategies. *Critical Connections*. 2011 Dec/2012 Jan;10(6):15. Available from: http://www.sccm.org/Publications/Critical_Connections/Archives/December-2011/Pages/IsThereaFungusAmongUs.aspx

Simmons JD. Speaking from the heart: end-of-life discussions in the ICU from the surgeon's perspective. *J Surg Educ*. 2012 May-Jun;69(3):441-2.

Simmons JD, Gunter JW 3rd, Schmiege RE Jr, Manley JD, Rushton FW Jr, Porter JM, Mitchell ME. Popliteal artery injuries in an urban trauma center with a rural catchment area: do delays in definitive treatment affect amputation? *Am Surg*. 2011 Nov;77(11):1521-5.

Straughn JM Jr, Gandy RE, Rodning CB. The core competencies of James Marion Sims, MD. *Ann Surg*. 2012 Jul;256(1):193-202.

II. PUBLISHED ABSTRACTS

Bradshaw LA, Richards WO. Multichannel MGG identifies intestinal slow wave dysrhythmias in chronic mesenteric ischemia. *Gastroenterology*. 2012 May;142(5S1):S-366. Abstract no. Sa1949.

Martin CD, Bradshaw LA, Somarajan S, Richards WO. Progressive occlusion of mesenteric artery changes biomagnetic signature of intestinal slow wave. *Gastroenterology*. 2012 May;142(5S1):S-846. Abstract no. Tul486.

Pande A, Liu J, Orlander P, Contreras CM, Couto MF. Effect of insurance status on presentation of differentiated thyroid cancer. *Thyroid*. 2011 Oct 28;21(S1):A-58. Poster 133.

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Beals DA. Invited speaker. Fetal and neonatal urological abnormalities. 21st Annual OB/GYN Conference; 2012 Apr 13; Mobile, AL.

Brevard SB. Invited speaker. Blast injury. Surgery Grand Rounds, Mobile Infirmary; 2012 Jan 14; Mobile, AL.

Brevard SB. Invited speaker. Is helicopter evacuation effective in rural trauma transport? Southeastern Surgical Congress; 2012 Feb 13; Birmingham, AL.

Brevard SB. Invited speaker. Penetrating thoracic arrow injury: a flashback to the wild west. Southeastern Surgical Congress; 2012 Feb 13; Birmingham, AL.

Brevard SB. Invited speaker. Panel discussion: trauma. Alabama and Mississippi Chapters of the American College of Surgeons Annual Conference; 2012 Jun 15; Destin, FL.

Contreras C. Invited speaker. Depletion of antibodies and serum-derived proteins to facilitate LC-MS detection of pancreas-specific proteins in pancreatic juice. American Association for Cancer Research: Pancreatic Cancer: Progress and Challenges; 2012 Jun 20; Lake Tahoe, NV.

Frotan MA. Invited speaker. Thermal injury. 3rd Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium; 2012 Mar 22; Mobile, AL.

Gonzalez RP. Invited speaker. Clinical clearance of the cervical spine in patients with distracting injuries: it is time to dispel the myth. Eastern Association for the Surgery of Trauma; 2012 Jan 13; Lake Buena Vista, FL.

Gonzalez RP. Invited speaker. Craniofacial impalement: projectile saw blade fragment to the head. Southeastern Surgical Congress; 2012 Feb 14; Birmingham, AL.

Gonzalez RP. Invited speaker. Current diagnosis and management of ARDS. 3rd Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium; 2012 Mar 22; Mobile, AL.

Gonzalez RP. Invited speaker. Is helicopter evacuation effective in rural trauma transport? Southeastern Surgical Congress; 2012 Feb 14; Birmingham, AL.

Gonzalez RP. Invited speaker. Tracheostomy timing in the intensive care unit: a retrospective analysis. Southeastern Surgical Congress; 2012 Feb 13; Birmingham, AL.

Luterman A. Invited speaker. Burn update. 21st Annual Surviving Trauma Conference: EMS District 1 EMS Council, Baptist Health Care, Sacred Heart Health System, West Florida Healthcare; 2011 Nov 19; Pensacola Beach, FL.

Nijhawan S. Invited speaker. A new approach to single site laparoscopic cholecystectomy. American College of Surgeons; 2011 Oct 24; San Francisco, CA.

Nijhawan S. Invited speaker. Gastric GIST resection using hybrid NOTES technique. American College of Surgeons; 2011 Oct 24; San Francisco, CA.

Nijhawan S. Invited speaker. The anatomical basis of robotic donor nephrectomy. American College of Surgeons; 2011 Oct 26; San Francisco, CA.

Nijhawan S. Invited speaker. Laparoscopic assisted robotic esophagectomy. Society of American Gastrointestinal and Endoscopic Surgeons; 2012 Mar 10; San Francisco, CA.

Nijhawan S. Invited speaker. Morbid obesity and indications of bariatric surgery. Mobile County Department of Health; 2012 Apr 11; Mobile, AL.

Nijhawan S. Invited speaker. Morbid obesity and indications of bariatric surgery. Atmore Community Hospital; 2012 May 16; Mobile, AL.

Nijhawan S. Invited speaker. Morbid obesity and indications of bariatric surgery. Franklin Primary Health Center; 2012 May 17; Mobile, AL.

Richards WO. Invited speaker. Mesenteric ischemia still a problem with early diagnosis and gastroparesis treatment with implantable gastric simulators. Auckland NZ GI Motility Meeting; 2011 Nov 1; Auckland, New Zealand.

Rodning CB. Invited speaker. Cervical pharyngostomy. Southeastern Surgical Congress; 2012 Feb 13; Birmingham, AL.

Rose M, Richards WO. Invited speakers. Laparoscopic longitudinal jejunectomy for intussusception after gastric bypass. Southeastern Surgical Congress; 2012 Feb 12; Birmingham, AL.

Simmons JD. Invited speaker. APRV – basic concepts and principles. Surgery Grand Rounds. University of Mississippi Medical Center; 2011 Nov 9; Jackson, MS.

Simmons JD. Invited speaker. Diagnosis and management of urological injuries. 3rd Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium; 2012 Mar 23; Mobile, AL.

Simmons JD. Invited speaker. Oxygen utilization. Hardy Society Meeting; 2012 Apr 19; San Destin, FL.

Simmons JD. Invited speaker. The mangled extremity. Alabama and Mississippi Chapters of the American College of Surgeons Annual Conference; 2012 Jun 15; Destin, FL.

V. NATIONAL PROFESSIONAL RECOGNITION

Sidney B. Brevard: Diplomat: American Board of Surgery; Fellow: American College of Surgeons; Member: Society of Critical Care Medicine; Member: Eastern Association for the Surgery of Trauma.

Carlo M. Contreras: Reviewer: *Journal of Palliative Medicine, Annals of Surgical Oncology.*

D. Lynn Dyess: Guest editor, American Surgeon Board.

M. Amin Frotan: Member: 2012 American College of Surgeons, 2012 Eastern Association for the Surgery of Trauma, 2012 Society of Critical Care Medicine, 2012 American Burn Association, Association for the Surgery of Trauma.

Roy E. Gandy: Editorial Board: *Current Surgery*; Member: Association of Program Directors in Surgery; Member, Association for Surgical Education.

Richard P. Gonzalez: Chairman, Gulf Region State Trauma Advisory Council, Mobile, AL; Member: Alabama State Trauma Advisory Council; Member: Committee on Trauma Care, Medical Association of State of Alabama; Member: Advisory Board, University of Alabama Birmingham Transportation Center; Reviewer: *Journal of Trauma, Journal of American College of Surgeons, Journal of Surgical Education, American Surgeon.*

Arnold Luterman: Editorial Boards: *The American Surgeon, Current Surgery, New Directions in Critical Care Nursing, Journal Burn care and Research, Journal of Burns*; Reviewer: *Journal of Trauma, Journal American College of Surgeons*; Committee: Clinical Studies Subcommittee: Shriners Hospitals for Children Research Advisory Committee.

Sheetal Nijhawan: Ad hoc Reviewer: *Surgical Endoscopy*; Member: Society of American Gastrointestinal and Endoscopic Surgeons (SAGES), Member: American Society of Metabolic and Bariatric Surgery (ASMBS); Associate Fellow: American College of Surgeons (ACS); Writer: ExamMaster.com.

William O. Richards: Editor: *Surgical Endoscopy, Journal of Laparoendoscopic and Advanced Surgical Techniques*; Ad hoc Reviewer: *Annals of Surgery, Surgical Endoscopy, Digestive Diseases and Sciences, Journal of Surgical Research, Surgery*; Member: (2012) Committee on Video-based Education for the American College of Surgeons, (Present) External Associate of the Vanderbilt Institute for Integrative Biosystems Research and Education, Listed among U.S. News Top Doctors; Program Chair: Minimally Invasive Surgery Symposium, Foregut Surgery (2012); Moderator:

Bariatric Surgery Video Session, American College of Surgeons, Washington DC (2012 Oct). Moderator: 2012 Workshop, International Electrogastrography Society San Diego, CA (2012 May 18).

Paul F. Rider: Member: American Board of Colon and Rectal Surgery; Clinical Trial: CBSG Study Group. Bioabsorbable staple line reinforced in colorectal anastomoses: analysis of a prospective randomized study. Keck School of Medicine at the University of Southern California Department of Surgery, Division of Colorectal Surgery. Los Angeles, CA.

Charles B. Rodning: Member: American Men and Women of Science (Jaques Catell Press), Who's Who in Science and Engineering (Marquis Who's Who Publication), Who's Who in the South and Southwest (Marquis Who's Who Publication), Who's Who in America (Marquis Who's Who Publication), Who's Who Among America's Teachers (Marquis Who's Who Publication), Alabama Writers' Forum – Alabama State Council on the Arts, Lexington Who's Who Registry of Executive and Professionals, International Who's Who of Professionals, Physician Member: American College of Surgeons Oncology Group, Board of Censors: Medical Society, County of Mobile, Continuing Medical Education Committee, President-Elect (2011), President (2011-2012), Mobile County Medical Reserve Corps, Department of Health and Human Services, Member-Officer-Councillor, Alabama Chapter, American College of Surgeons: President-Elect, (2009-2010), President (2011), Immediate Past President (2011-2012), Member: Association for Surgical Education; Counsellor, College of Counselors, District 1, Medical Association/State of Alabama – Member: Reference Committee (2011); Moderator/Facilitator: 3rd Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium, 5 Rivers/Alabama's Delta Resource Center; Spanish Fort, AL (2012 Mar 22, 23).

Frederick M. Silver: Member: Alabama 3 Disaster Medical Systems Team (DMAT).

Jon D. Simmons: Member: Society of Critical Care Medicine, Southeastern Surgical Congress, Eastern Association for the Surgery of Trauma; Candidate: Fellow of American College of Surgeons.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Medical Student Education: The Department of Surgery continues to have a leadership role in many aspects of student education. Drs. Brevard, Dyess, Gandy, Gonzalez, Hodge, Luterman, Rodning, Richards, and Simmons, and were awarded the red sash award by the senior medical students for their contributions to education. In addition, many faculty including Drs. Luterman and Richards are playing a vital role in creating active learning exercises for the first and second year students under the new curriculum.

General Surgery Residency Training: William O. Richards, M.D., F.A.C.S. took over as Program Director and along with the newly recruited associate program director Jon Simmons, M.D., F.A.C.S. implemented multiple changes in resident education with very

positive results. The number of categorical general surgery residents was increased from 4 to 5 residents per year and 5 new categorical PGY 1 residents were matched to the program. The ACGME Residency Review Committee made a site visit to the program in August 2012 and found substantial improvements in all areas of resident education.

Recruitment: With the retirement and resignation of several faculty the Department has recruited heavily to fill positions and increase the clinical, academic and educational missions of the Department. Five new faculty members (Drs. Frotan, Gosche, Gulati, Nijhawan, and Simmons) were recruited to the Department of Surgery.

Division of Traumatology/Surgical Critical Care: Richard P. Gonzalez, M.D. F.A.C.S. Professor and Director of the Division and has submitted an application to create a new Surgical Critical Care Fellowship program.

Dr. Mohammad Amin Frotan was recruited from fellowship training in Surgical Critical Care and has been made Director of critical Care in the Burn Unit. Dr. Frotan has made a huge impact in resident education with many hours spent on mock oral boards and preparation for clinical practice.

Dr. Jon Simmons was recruited from fellowship training in Surgical Critical Care and has provided outstanding leadership for resident education as the newly appointed Associate Program Director for General Surgery Residency training program. Many of the accomplishments for the residency program and the tremendous advances in academics, ABSITE performance, and educational activities of the Department of Surgery can be directly attributed to Dr. Simmons.

Pediatric Surgery: Dr. John Gosche, an experienced pediatric surgeon who was the Chief of Pediatric surgery at the University of Nevada Las Vegas, has been recruited to the Division. Dr. Gosche has an excellent reputation as an outstanding surgeon and educator, and he will fill the void left by the departure of Dr. Celeste Hollands.

Colorectal Surgery: Dr. Paul Rider has developed a multidisciplinary colorectal cancer clinic at the Mitchell Cancer Institute in collaboration with radiation and medical oncologists in order to provide improved cancer care in the region. He has been instrumental in developing a clinical research program that identified best practices for rectal surgery. Dr. Rider has provided an expert clinical service in Colorectal Surgery across the board and increasingly, USA Department of Surgery is recognized for its clinical expertise in colorectal and gastro-intestinal surgery.

General Surgery: A generous endowment by Dr. Charles and Mary Rodning for the educational activities of our residents has been a tremendous boost. Many faculty and staff as well as outside surgeons have given generously to this fund which continues to increase its endowment.

Breast and endocrine: Dr. Lynn Dyess has moved to the MCI clinics and has increased her clinical load substantially. We are adding nurse practitioner clinics so that they can

provide long term care for breast cancer patients as well as starting a new thyroid clinic for evaluation and treatment of thyroid lesions. This will enable Dr. Dyess to focus on new patients to the practice with a subsequent increase in surgical procedures.

Plastic and Reconstructive Surgery: Dr. Salil Gulati was recruited from fellowship training in Plastic and Reconstructive surgery to provide expert burn care as well as reconstructive surgery in the division. He serves as the Medical Director of the USA Regional Burn unit. This has led to the very successful transition from the directorship of Dr. Arnie Luterman to Dr. Gulati serving as the Medical Director and Dr Frotan as the Critical Care Director of the burn unit. Recently, Drs Gulati, Frotan, and Hodge attended the American Burn Association meeting with other members of the Burn Unit, and have started multiple clinical research projects.

Gastrointestinal and Bariatric surgery: Dr Sheetal Nijhawan was recruited from Fellowship training in order to amplify our minimally invasive and bariatric surgery capabilities. She been awarded a Society of American Gastrointestinal and Endoscopic Surgeons research award (SAGES) for 2012: "Effects of Bariatric Surgery on Mitochondrial Function and Insulin Resistance." She has been instrumental in implementing the bariatric surgery database, and providing outreach programs, talking to physicians around the region that has increased our referral base for bariatric surgery.

Surgical Oncology: Dr. Carlo Contreras has served as the local Program Director at Providence Hospital developing a very fine rotation with high levels of resident satisfaction. He has been able to develop research collaboration with other members of the USA Mitchell Cancer Institute and with our Division of Gastroenterology.

Research: The Department has increased collaboration between basic science departments specifically; the research collaborations between Drs. Gillespie, Alvarez, Cioffi, and others have been very fruitful. We have implemented a clinical core to collect blood, muscle and other tissue samples from our patients and to measure microcirculation non-invasively in critically ill trauma and burn patients, ultimately, with the goal to submit a P50 trauma/burn center grant in collaboration with basic science departments in the COM. In addition, avenues of research developed between the basic scientists in the COM and surgeons looking at reversal of the metabolic syndrome after bariatric surgery have resulted in 2 competitive grants being funded.

William Richards, M.D. F.A.C.S. was awarded an American Society of Metabolic and Bariatric Surgeons (ASMBS) grant in 2011 for "Vascular Endothelium Changes after Bariatric Surgery."