

Annual Research Productivity Report



**TEXAS TECH UNIVERSITY
HEALTH SCIENCES CENTER™**

Paul L. Foster School of Medicine

Department of Internal Medicine

Department of Internal Medicine

FY 2014

1 September 2013 – 31 August 2014

Prepared by: Sean M. Connery

Dear Friends—

I am very pleased to bring to you the annual Internal Medicine departmental research productivity report for FY14. The Department had another banner year with **91** peer reviewed publications, several textbooks chapters and number of regional and national presentations. Let me take this opportunity to congratulate our faculty who despite an extremely busy clinical workload continue to excel in other academic endeavors namely teaching and research. I would also like to thank Dr. Jerzy Sarosiek for his tireless efforts to promote research amongst our faculty, residents and medical students and being an incredible resource to all of us.

I am happy to note that the scholarly productivity of the house staff has increased substantially this year and reflect the mentoring/guidance by our excellent faculty. Our faculty received research funding from both public and private sources and the clinical research enterprise continues to grow under the stewardship of Mr. Sean Connery.

I hope next year Internal Medicine will be even more productive, and each and every one of us will need to put in the effort to make this possible.

Finally, I wish all of you a fun and productive fall!

A handwritten signature in black ink that reads "Debabrata". The script is cursive and fluid, with the first letter 'D' being particularly large and stylized.

Debabrata Mukherjee, MD, MS

Chairman

Department of Internal Medicine

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Publications TTUHSC Dept of Internal Medicine 2013-2014*

Faculty Member, *In-Training (Medical Student, Resident, Fellow)*

*Citation format – Uniform requirements for manuscripts submitted to biomedical journals:
International Committee of Medical Journal Editors

Peer Reviewed Publications

ORIGINAL ARTICLES

1. Akiyama J, Bertelé A, Brock C, Hvid-Jensen F, Ichiya T, Krarup AL, Majewski M, Rubio CA, **Sarosiek J**, et al. **Benign and precursor lesions in the esophagus**. Ann N Y Acad Sci. 2014 Sep;1325(1):226-41.
2. Alkhateeb H, Said S, Cooper CJ, Rodriguez-Castro C, Dwivedi A, Onate E, Quansah R, **Mukherjee D**. **Clinical profiles and outcomes of acute aortic dissection in a predominantly Hispanic population**. Med Sci Monit. 2014 May 7;20:747-51.
3. Azimova K, Rude J, Mallawaarachchi I, Dwivedi A, **Sarosiek J**, **Mukherjee D**. **Glucose Levels and Depression in Hispanic Patients Admitted to the Cardiovascular Intensive Care Unit: A Cross-Sectional Study**. Angiology. 2014, 20(1): 1-8.
4. Bashashati M, **McCallum RW**. **Neurochemical mechanisms and pharmacologic strategies in managing nausea and vomiting related to cyclic vomiting syndrome and other gastrointestinal disorders**. Eur J Pharmacol. 2014 Jan 5;722:79-94.
5. Bernard CE, Gibbons SJ, Mann IS, Froschauer L, Parkman HP, Harbison S, Abell TL, Snape WJ, Hasler WL, **McCallum RW**, **Sarosiek I**, et al; on behalf of the NIDDK Gastroparesis Clinical Research Consortium (GpCRC). **Association of low numbers of CD206-positive cells with loss of ICC in the gastric body of patients with diabetic gastroparesis**. Neurogastroenterol Motil. 2014 Sep;26(9):1275-84.
6. Boulos F, Farra CG, Saad Aldin EM, Masaad C, Hassoun Y, Fedda F, Doumiati H, Tawil AN, Nasser Z, **Nahleh Z**, et al. **Changing frequency of equivocal HER-2/neu scores and factors predictive of negative HER 2/neu fluorescent in situ hybridisation in invasive carcinomas of the breast**. J Clin Pathol. 2014 Mar;67(3):204-9.
7. Castro-Combs J, Garcia CJ, Majewski M, Wallner G, **Sarosiek J**. **Impaired Viscosity of Gastric Secretion and Its Mucin Content as Potential Contributing Factors to the Development of Chronic Constipation**. Dig Dis Sci. 2014 Jun 4. [Epub ahead of print]
8. Chatterjee S, Sharma A, Uchino K, Biondi-Zoccai G, Lichstein E, **Mukherjee D**. **Rivaroxaban and risk of myocardial infarction: insights from a meta-analysis and**

- trial sequential analysis of randomized clinical trials.** Coron Artery Dis. 2013 Dec;24(8):628-35.
9. Chatterjee S, Sardar P, Giri JS, Ghosh J, **Mukherjee D.** **Treatment Discontinuations With New Oral Agents for Long-term Anticoagulation: Insights From a Meta-analysis of 18 Randomized Trials Including 101,801 Patients.** Mayo Clin Proc. 2014 Jul;89(7):896-907.
 10. Chatterjee S, Chakraborty A, Weinberg I, Kadakia M, Wilensky RL, Sardar P, Kumbhani DJ, **Mukherjee D,** et al. **Thrombolysis for pulmonary embolism and risk of all-cause mortality, major bleeding, and intracranial hemorrhage: a meta-analysis.** JAMA. 2014 Jun 18;311(23):2414-21.
 11. Chatterjee S, Chaudhuri D, Vedanthan R, Fuster V, Ibanez B, Bangalore S, **Mukherjee D.** **Early Intravenous Beta-Blockers in Patients with Acute Coronary Syndrome-A Meta-analysis of Randomized Trials.** Int J Cardiol. 2013 Sep 30;168(2):915-21.
 12. Chatterjee S, Chakraborty A, Weinberg I, Kadakia M, Wilensky RL, Sardar P, Kumbhani D, **Mukherjee D,** et al. **Thrombolysis for pulmonary embolism and risk of all-cause mortality, major bleeding and intracranial hemorrhage: A Meta-Analysis.** JAMA 2014 Jun 18;311(23):2414-21.
 13. Chatterjee S, Ghose A, Sharma A, Guha G, **Mukherjee D,** Frankel R. **Comparing Newer Oral Anti-platelets Prasugrel and Ticagrelor in Reduction of Ischemic Events-Evidence From A Network Meta-analysis.** J Thromb Thrombolysis. 2013 Oct;36(3):223-32
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17. Cooper CJ, Said S, Bizet J, Alkahateeb H, **Sarosiek I, McCallum RW**. **Rapid or normal gastric emptying as new supportive criteria for diagnosing cyclic vomiting syndrome in adults**. Med Sci Monit. 2014 Aug 22;20:1491-5.
18. Elhanafi S, Ortiz AM, Yarlagadda A, Tsai C, Eloliby M, Mallawaarachchi I, Dwivedi A, **Zuckerman MJ, Othman MO**. **Estimation of the Adenoma Detection Rate From the Polyp Detection Rate by Using a Conversion Factor in a Predominantly Hispanic Population**. J Clin Gastroenterol. (2014) In Press.
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21. **Figueroa-Casas JB**, Connery SM, Montoya R, Dwivedi AK, Lee S. **Accuracy of early prediction of duration of mechanical ventilation by intensivists**. Ann Am Thorac Soc. 2014 Feb;11(2):182-5.
22. **Figueroa-Casas JB**, Connery SM, Montoya R. **Changes in Breathing Variables over the Course of a 30 Minute Spontaneous Breathing Trial**. Respir Care 2014 (in press)
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24. **Gaur S**, Ayyappan AP, **Nahleh Z**. **Breast metastases from an adrenocorticotrophic hormone secreting thymic neuro-endocrine tumor**. Breast Dis. 2013 Jan 1;34(2):81-6.
25. Gutiérrez-Hermosillo H, Díaz De León-González E, Palacios-Corona R, Cedillo-Rodríguez JA, Camacho-Luis A, Reyes-Romero MA, Medina-Chávez JH, **Blandón PA**. **C allele of the rs2209972 single nucleotide polymorphism of the insulin degrading enzyme gene and Alzheimer's disease in type 2 diabetes, a case control study**. Med Clin (Barc). 2013 Dec 16. pii: S0025-7753(13)00754-9.
26. **Ladd AM**, Panagopoulos G, Cohen J, Mar N, Graham R. **Potential costs of inappropriate use of proton pump inhibitors**. Am J Med Sci. 2014 Jun;347(6):446-51.

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31. Parkman HP, Yates K, Hasler WL, Nguyen L, Pasricha PJ, Snape WJ, Farrugia G, Koch KL, Calles J, Abell TL, **Sarosiek I, McCallum RW**, et al. **Cholecystectomy and clinical presentations of gastroparesis.** Dig Dis Sci. 2013 Apr;58(4):1062-73.
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38. **Sarosiek I**, Jameson Forster, Z. Lin, S. Cherry, **Jerzy Sarosiek**, Richard McCallum . **The addition of pyloroplasty as a new surgical approach to enhance effectiveness of gastric electrical stimulation therapy in patients with gastroparesis;** Neurogastroenterology & Motility (2013) 25, 134-e80
39. Sharma A, Einstein AJ, Vallakati A, Arbab-Zadeh A, Walker MD, **Mukherjee D**, Goyal S, Lichstein E. **Risk of Atrial Fibrillation with use of Oral and Intravenous Bisphosphonates.** Am J Cardiol. 2014 Jun 1;113(11):1815-2.
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41. Tommaso CL, Fullerton DA, Feldman T, Dean LS, Hijazi ZM, Horlick E, Weiner BH, Zahn E, Cigarroa JE, Ruiz CE, Bavaria J, Mack MJ, Cameron DE, Bolman RM 3rd, Miller DC, Moon MR, **Mukherjee D**, et al. **SCAI/AATS/ACC/STS Operator and Institutional Requirements for Transcatheter Valve Repair and Replacement: Part II. Mitral Valve.** Ann Thorac Surg. 2014 May 14. pii: S0003-
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1. Falluji N, **Mukherjee D**. **Critical and Acute Limb Ischemia: An Overview**. *Angiology*. 2014 Feb;65(2):137-46.
2. **Gosavi S, Mukherjee D**. **Review of newer anticoagulants and anti-platelet agents in acute coronary syndrome and cardiovascular diseases**. *Cardiovasc Hematol Agents Med Chem*. 2013 Sep;11(3):194-202.
3. Hejazi RA, **McCallum RW**. **Rumination Syndrome: A Review of Current Concepts and Treatments**. *Am J Med Sci*. 2014 Oct;348(4):324-9.
4. Hejazi RA, **McCallum RW**. **Cyclic vomiting syndrome: treatment options**. *Exp Brain Res*. 2014 Aug; 232(8):2549-52.
5. **Mukherjee D**. **Management of Refractory Angina in the Contemporary Era**. *Eur Heart J*. 2013 September; 34(34):2655-7.
6. **Mukherjee D**. **Review: Antiplatelet therapies are more effective in smokers than nonsmokers**. *Ann Intern Med*. 2014 Jan 21;160(2):JC6.
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8. Patham B, **Mukherjee D, San Juan ZT**. **Contemporary review of drugs used to treat obesity**. *Cardiovasc Hematol Agents Med Chem*. 2013 Dec;11(4):272-80.
9. Said S, **Hernandez GT**. **The link between chronic kidney disease and cardiovascular disease**. *J Nephrol*. 2014 Jul;3(3):99-104.
10. Said S, **Nwosu AC, Mukherjee D, Hernandez GT**. **Alogliptin; A Review of a New Dipeptidyl Peptidase-4 (DPP-4) Inhibitor for the Treatment of Type 2 Diabetes Mellitus**. *Cardiovasc Hematol Disord Drug Targets*. 2014;14(1):64-70.
11. Said S, **Mukherjee D**. **Serelaxin: New Investigational Treatment in Acute Heart Failure**. *Cardiovasc Hematol Agents Med Chem*. 2013 Sep;11(3):243-8
12. Said S, **Porres-Aguilar M**, Porres-Munoz M, **Mukherjee D**. **Eisenmenger syndrome: recent advances in pharmacotherapy**. *Cardiovasc Hematol Agents Med Chem*. 2013 Dec;11(4):289-96.
13. Sun Y, Song G, **McCallum RW**. **Evaluation of acotiamide for the treatment of functional dyspepsia**. *Expert Opin Drug Metab Toxicol*. 2014 Aug;10(8):1161-8.
14. Switzer MP, **Nwosu AC, San Juan Z, Mukherjee D**. **Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9) and LDL Lowering in the Contemporary**

Management of Dyslipidemia. Cardiovasc Hematol Agents Med Chem. 2013
Dec;11(4):281-8.

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- 1) Chatterjee S, Biondi-Zoccai G, **Mukherjee D**. **Vascular Closure Devices: Are Their Use Justified? Evidence from a Meta-Analysis of Randomized Trials**. J Am Coll Cardiol; 2013;61(10): Suppl A, A417.
- 2) Chatterjee S, Roy A, Abbate A, D'Ascenzo F, **Mukherjee D**, Biondi-Zoccai G. **A Network Meta-analysis and Diversity-adjusted Trial Sequential Analysis of Angiotensin Converting Enzyme Inhibitors in Patients with Heart Failure: Evidence of Class Effect**. Circulation. 2013;128:A16320.
- 3) Chatterjee S, Sardar P, Wetterslev J, Biondi-Zoccai G, **Mukherjee D**. **Revascularization of Viable Myocardium Insights from Meta-Analyses of Randomized Clinical Trials and Recent Non-Randomized Studies on the Effect on All Cause Mortality Using Trial Sequential Analyses and Meta-Regression Analysis**. J Am Coll Cardiol. 2013;61(10): Suppl A, A380. (ACC YIA)
- 4) Connery SM, Mitchell DC, **Hernandez GT**, **Tolouian R**. **Is ENPP1 Gene SNP Associated with Lower Pyrophosphate Levels in ESRD?** J Am Soc Nephrol, 2013;24:422A.
- 5) *Elbanafi S*, *Ortiz A*, Yarlagadda A, Tsai C, Eloliby M, Mallawaarachchi I, **Zuckerman M**, **Othman M**. **Validation of the use of a conversion factor to estimate the adenoma detection rate from the polyp detection rate**. Am J Gastroenterol 2013;108 (Suppl 1): S641-S642.
- 6) *Elbanafi S*, *Saadi M*, *Lon W*, Mallawaarachchi I, **Zuckerman M**, Dwivedi A, **Othman M**. **Gastric polyps: association with H. pylori status and the pathology of the surrounding mucosa, a retrospective study**. Gastrointest Endosc 2014;79 (Suppl): AB478.
- 7) **Figueroa-Casas JB**, Montoya R. **Effects Of Positive End-Expiratory Pressure On Expiratory Flow During Acute Respiratory Distress Syndrome**. Am J Respir Crit Care Med. 2014;189:A4562.
- 8) *Jia Y*, *Elbanafi S*, *Ortiz A*, **Othman M**, **Zuckerman M**. **Risk of bacteremia after endoscopic sclerotherapy of esophageal varices: a systematic review**. Am J Gastroenterol 2013;108 (Suppl1): S578-S579.
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- 10) **Jia Y, Ortiz AM, Zuckerman M, Othman MO. Risk of bacteremia after endoscopic banding ligation of esophageal varices: a systematic review.** *Gastrointest Endosc* 2013; 77: AB324 – AB325.
- 11) **Nahleh ZA, Arenas J, Otoukesh S, Nasrazadani A, Sanchez L, Alvarado A, Padilla O, Dwivedi A. Concordance of Ki-67 with 21-gene expression profile (RS) in early-stage breast cancer.** *J Clin Oncol.* 2014;32 (suppl; abstr e11510).
- 12) **Othman M, Eloliby M, Davis B, Guerrero R, Sanchez L, Swivedi A, Alvarado L, Zuckerman M. Cap assisted colonoscopy (CAC) is associated with increased detection of advanced adenoma and total number of polyps per patient in a randomized controlled trial in a predominantly Hispanic population.** *Gastrointest Endosc.* 2014;79 (Suppl): AB555.
- 13) **Othman M, Guerrero R, Elbanafi S, Davis B, Houle J, Eloliby M, Hernandez J, Zuckerman M. A prospective study of the risk of bacteremia in directed cholangioscopic examination of the common bile duct.** *Am J Gastroenterol.* 2013; 108 (Suppl1): S74-S75.
- 14) **Sardar P, Chatterjee S, Bangalore S, Ibanez B, Mukherjee D. Early Intravenous Beta-Blockers before PCI, but Not Fibrinolytics Improve In-Hospital Mortality in Subjects with STEMI.** *J Am Coll Cardiol.* 2013;61(10):Suppl A, A15.
- 15) **Sardar P, Chatterjee S, Ghosh J, Mukherjee D, Lip GYH. Risk of Major Bleeding in Different Indications for New Oral Anticoagulants: Insights from a Meta- Analysis of Approved Dosages from 48 Randomized Trials.** *Circulation.* 2013;128:A11219.
- 16) **Sardar P, Chatterjee S, Wu WC, Lichstein E, Ghosh J, Aikat S, Mukherjee D. New Oral Anticoagulants Are Not Superior to Warfarin in Secondary Prevention of Stroke: Insights from a Meta-Analysis of Randomized Trials and Indirect Treatment Comparisons.** *J Am Coll Cardiol.* 2013;61(10):Suppl A, A78.
- 17) **Sardar P, Chatterjee S, Udell J, Bansilal S, Mukherjee D, Farkouh M. Effect of Intensive Compared with Standard Blood Glucose Control in Patients with Type 2 Diabetes Mellitus in Different Regions of the World: Systematic Review and Meta-Analysis of Randomized Controlled Trials.** *J Am Coll Cardiol.* 2014;63(12): Suppl A, A1338.
- 18) **Sharma A, Vallakati A, Einstein A, Lavie C, Arbab-Zadeh A, Lopez-Jimenez F, Mukherjee D, Lichstein E. Relationship of Body Mass Index with Total Mortality, Cardiovascular Mortality and Myocardial Infarction after Coronary Revascularization: Evidence from a Meta-Analysis.** *J Am Coll Cardiol.* 2014;63(12): Suppl A, A1355.
- 19) **Tolouian R, Connery SM, Hernandez GT. Inhibitors of Vascular Calcification and Coronary Artery Calcification in ESRD.** *J Am Soc Nephrol.* 2013;24:550A.

- 20) **M. Othman**, B. Davis, A. Torabi, **I. Sarosiek**, R. McCallum. **Successful Endoscopic Ultrasound Guided Biopsies of Gastric Muscularis Propria in Gastroparesis Patients.** ACG, Volume 108 Supplement 1, Pg. S37
- 21) . J. Diaz, A. Bagherpour, J. Reber, S. Lee, A. Dwivedi, C. Cooper, **I. Sarosiek**, R. McCallum. **Clinical Relevance of 30-minute Retention Value in Diagnosing Rapid Gastric Emptying by a Scintigraphic Test.** ACG, Volume 108 Supplement 1, Pg. S41.
- 22) **I. Sarosiek**, D. Vasquez, R. McCallum. **Scintigraphic and Breath Test Evaluations of Gastric Emptying in the Same Patients: What are the Results?** ACG, Volume 108 Supplement 1, Pg. S42.
- 23) **I. Sarosiek**, A. Alvarez, Y. Gomez, J. Sarosiek, **R. McCallum.** **Does Small Intestinal Bacterial Overgrowth Delay Small Bowel Transit Time?** ACG, Volume 108 Supplement 1, Pg. S103.
- 24) **C. Cooper**, Y. Sun, S. Said, J. Bizet, I. Sarosiek, R. McCallum. **Cyclic Vomiting Syndrome: How to improve Diagnostic Criteria?** ACG, Volume 108 Supplement 1, Pg. S564.
- 25) **Irene Sarosiek**, A. Alvarez, R. Romero, Y. Gomez, N. Vega, R. McCallum **J. Sarosiek;** **Lubiprostone, a Selective Type 2 Chloride Channel Activator- A Novel Agent Investigated with the “SmartPill” Methodology.** MCA BIOMED Research Symposium Abstract Book October 2013, page 13
- 26) **Irene Sarosiek**, B. Davis, K. Matlock, A. Ortiz, R. McCallum - **Gastric Electrical Stimulation Therapy for Treatment of Gastroparesis at UMC-EP;** MCA BIOMED Research Symposium Abstract Book October 2013, page 14
- 27) Yan Sun, **Irene Sarosiek**, **R. McCallum**, J. Chen: **Needless Acupuncture Therapy to Control Dyspepsia and GERD Symptoms in Patients Diagnosed with Diabetic Gastroparesis;** MCA BIOMED Research Symposium Abstract Book October 2013, page 14
- 28) **M. Othman**, B. Davis, A. Torabi, I Sarosiek, R. McCallum: **Successful Endoscopic Guided Biopsies of Gastric Musculris Priopria in Gastroparesis Patients;** MCA BIOMED Research Symposium Abstract Book October 2013, page 16
- 29) A. Ortiz, C. Cooper, Y. Gomez, **I. Sarosiek**, **R. McCallum.** **Clinical Experience and Cardiovascular Safety Profile of Domperidone Therapy for Nausea and Vomiting.** DDW 2014.; page A-39

- 30) K. Archana, T. Abell. , Bernard. C, Farrugia. G, Lahr. C, Hasler. W, Koch. K, McCallum. R, Nguyen. L, Parkman. H, Pasricha. P, **Sarosiek. I**, Snape. W, Unalp. A, Tonascia. J, Serrano. J, Hamilton. F. **Intra-Operative Electrophysiological and Interstitial Cell of Cajal findings in Patients with the Symptoms of Gastroparesis**. DDW 2014, page A-973
- 31) Hasler. W, Belt. P, Wilson. L, **McCallum, R**. Parkman. H, Koch. K, Abell. T, Pasricha. M, Snape. W, Anh. L, Sarosiek. I, Farrugia. G, Calles-Escandon. J, Tonascia. J, Lee. L Unalp. A, Hamilton. F. **Correlation of Fermentable Carbohydrate Consumption with Symptoms and Quality of Life in Patients With Diabetic and Idiopathic Gastroparesis**. DDW 2014, page A-974
- 32) M. Othman, B. Davis, A. Torabi, **I. Sarosiek, R. McCallum**. **Comparison of Histological Characteristics of the Gastric Wall Muscularis Propria in Gastroparetic Patients by Endoscopic Ultrasound (FNA) Technique Versus Full Thickness Surgical Biopsy**. DDW 2014, page A-974.
- 33) M. Saadi, J. Sunny, A. Torabi, B. Davis, **I. Sarosiek, R. McCallum**. **Historical Evidence of Inflammatory Changes in the Myenteric Plexus of Gastric Smooth Muscle in Idiopathic Gastroparesis Patients**. DDW 2014, page A-978
- 34) J. Calles-Escandon, W. Hasler, K. Koch, M. Van Natta, I. Vaughn, H. Parkman, T. Abell, P. Pasricha, W. Snape, **R. McCallum, I. Sarosiek**, G. Farrugia, J. Tonascia, A. Unalp, L. Lee, F. Hamilton, L. Nguyen. **Continuous Blood Glucose Patterns in Diabetic Patients With Gastroparesis: Baseline Findings from the GPCRC GLUMIT-DG Study**. DDW 2014, Page A-980
- 35) **I. Sarosiek**, B. Davis, J. Forster, J. Liu, A. Dwivedi, **R. McCallum**. **Pyloroplasty Combined with Gastric Electrical Stimulation- Is This is the Final Solution for Refractory Gastroparesis?** DDW 2014, page A-980

Abstracts – No Citation

Sharma A, Einstein A, Vallakati A, Arbab-Zadeh A, **Mukherjee D**, Lichstein E. **Global left ventricular function evaluation with multidetector computed tomography as compared to cardiac magnetic resonance imaging: A Meta-analysis of 27 studies**. (Presented at the American Society of Nuclear Cardiology 18th Annual Scientific Session, September 26-29, 2013 in Chicago. IL)

Nahleh Z, Dwivedi A, Mallawaarachchi I, **Heydarian R**, Saldivar S, **Otoukesh S**, Sanchez L. **BRCA Mutations Among Hispanic Breast Cancer Patients of Mexican Origin in El Paso, TX**. San Antonio Breast Cancer Symposium, San Antonio, TX 2013, (Poster presentation)

Nahleh Z, Pasillas R, Dwivedi A, Nasrazadani A, **Heydarian R**, Sanchez L, Mallawaarachchi I, Ochoa C, Saltzstein E. **Improved outcome of breast cancer survivors participating in a multidisciplinary cancer survivorship program at Texas Tech University Health Sciences in El Paso, TX**. TX San Antonio Breast Cancer Symposium, San Antonio, TX 2014, (Poster presentation).

E. Onate, **I Sarosiek**, K. Liu, A. Dwivedi, **R. McCallum**; **Increased rate of gastric emptying after pyloroplasty correlates with reduction of gastroparetic symptoms** – SSCI meeting, February 2014

Saadi M, Torabi A, Moraveji S, Sunny J, Davis B, **Sarosiek I, McCallum R**: **Histological evidence of inflammatory changes in the muscularis propria of gastric smooth muscle in idiopathic gastroparesis patients**- SSCI meeting February 2014

CASE REPORTS

1. Alkhateeb H, Said S, Cooper CJ, Elhanafi S, Teleb M, Saifuddin F, **Mukherjee D, Abbas A, Davis HE 2nd.** **Myopericarditis as a complication of nonspecific colitis.** Am J Case Rep. 2014 Feb 21;15:82-4.
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6. Cooper CJ, Said S, Teleb M, Rosa P, **Didia SC.** **An immunocompetent patient with a vesicular rash and neurological symptomatology.** Case Rep Med. 2013;2013:168943.
7. Cooper CJ, Said S, Popp M, Alkhateeb H, Rodriguez C, **Porres Aguilar M, Alozie O.** **A complicated case of an immunocompetent patient with disseminated nocardiosis.** Infect Dis Rep. 2014 Apr 4;6(1):5327
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10. Moraveji S, Torabi A, **Nahleh Z, Farrag S, Gaur S.** **Acute leukemia of ambiguous lineage with trisomy 4 as the sole cytogenetic abnormality: A case report and literature review.** Leuk Res Rep. 2014 May 2;3(2):33-5.
11. Ortega L, Cooper CJ, Otoukesh S, Mojtahedzadeh M, **Didia CS,** Torabi A, **Nahleh Z.** **Multicentric Castleman's Disease and Kaposi's Sarcoma in a HIV-Positive Patient on Highly Active Antiretroviral Therapy.** Rare Tumors. 2014 Aug 6;6(3):5480.

12. Otoukesh S, Cooper CJ, Lou W, Mojtahedzadeh M, Nasrazadani A, Wampler M, **Nahleh Z**. **Combination chemotherapy regimen in a patient with metastatic malignant pheochromocytoma and neurofibromatosis type 1.** Am J Case Rep. 2014 Mar 25;15:123-7.
13. **Porres-Aguilar M, Burgos JD**, Munoz OC, Soto-Cora E, **Mukherjee D**. **Successful pharmacomechanical intervention with ultrasonic-accelerated thrombolytic catheter for massive pulmonary embolism.** Indian Heart J. 2013 Dec;65(6):699-702.
14. Quansah R, Cooper CJ, Said S, Bizet J, Paez D, **Hernandez GT**. **Hepatitis C- and HIV-induced porphyria cutanea tarda.** Am J Case Rep. 2014 Jan 21;15:35-40.
15. Rambod M, Elhanafi S, **Mukherjee D**. **Brugada Phenocopy in Concomitant Ethanol and Heroin Overdose.** Ann Noninvasive Electrocardiol. 2014 Jun 5.
16. Rodríguez-Castro CE, Alkhateeb H, Elfar A, Saifuddin F, **Abbas A, Siddiqui T**. **Recurrent myopericarditis as a complication of Marijuana use.** Am J Case Rep. 2014 Feb 5;15:60-2.
17. **Seethala S, Gaur S**, Enderton E, **Corral J**. **Postpartum acquired hemophilia: a rare cause of postpartum hemorrhage.** Case Rep Hematol. 2013;2013:735715.
18. Said S, Alkhateeb H, Cooper CJ, Galvis JM, Fang H, **Hernandez GT, Salameh HJ**. **Primary central nervous system amelanotic melanoma in a Hispanic male: Case report.** Pol J Radiol. 2014 Jul 10;79:199-202.
19. Said S, Alkhateeb H, Cooper CJ, Rodriguez E, Trien R, **Hernandez GT, Salameh HJ**. **Idiopathic CD4+ lymphocytopenia in Hispanic male: case report and literature review.** Int Med Case Rep J. 2014 Jul 30;7:117-20
20. Said S, Cooper CJ, Alkhateeb H, Galvis JM, **Hernandez GT, Salameh HJ**. **Moyamoya in Hispanics: not Only in Japanese.** Neurol Int. 2014 Jun 4;6(2):5369.
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22. Said S, Cooper CJ, Chowdhury F, Nunez A, Quansah R, **Davis HE 2nd**. **A case with unusual stroke and fulminant outcome in a Hispanic male.** Am J Case Rep. 2013 Oct 21;14:424-9.
23. Trien R, Cooper CJ, Paez D, Colon E, Ajmal S, **Salameh H**. **Interferon-alpha-induced sarcoidosis in a patient being treated for hepatitis C.** Am J Case Rep. 2014 May 28;15:235-8.

BOOK CHAPTERS

- 1) **Hernandez GT**, Rodriguez RA. **Renal Toxicology**. In: Harrison R & LaDou J, editors. Current Diagnosis & Treatment, Occupational & Environmental Medicine, 5th Edition. New York: McGraw Hill; 2014.
- 2) Negrin J, Pattathan M, **Mukherjee D**. **Bare Metal Stents**. In: George JC, editors. Evidence-based guide to Interventional cardiology and Endovascular Medicine. New York, NY: Nova Biomedical, October 2013, pp 107-114.
- 3) **Nahleh Z**. **Overview of Metronomic Chemotherapy in SWOG Breast Cancer Cooperative Group Clinical Trials**. In: Bocci G, Francia G, editors. Metronomic Chemotherapy Pharmacology and Clinical Applications. Berlin Heidelberg: Springer; 2014, XVI, p. 111-118.
- 4) **Nahleh Z**. **Systemic Therapy for Breast cancer: Success and Challenges**. In: Dupuy DE, Fong Y, McMullen WN, editors. Image-Guided Cancer Therapy: A Multidisciplinary Approach. New York, NY: Springer Science & Business Media, Inc. 2013. Chapter 64.
- 5) Messerli A, Ziada K, **Mukherjee D**. **Peri-Procedural MI and Emboli Protection**. In: Topol EJ, Tierstein P, editors. Textbook of Interventional Cardiology, 6th Edition. Philadelphia, PA: W.B. Saunders, 2014
- 6) **Mukherjee D**. **Cerebrovascular and Peripheral Vascular Disease in Diabetes Mellitus**. In: Ferrannini E, Zimmet P, DeFronzo R, Alberti G, editors. International Textbook of Diabetes Mellitus, 4th edition. Chichester, England: John Wiley & Sons, Ltd, 2014.
- 7) **Mukherjee D**. **Lower extremity interventions**. In: Topol EJ, Tierstein P, editors. Textbook of Interventional Cardiology, 7th Edition. Philadelphia, PA: W.B. Saunders, 2014.
- 8) **Mukherjee D**. **Natural history of saphenous vein grafts**. In: Kapadia S and Krishnaswamy S, editor. Interventional Cardiology Clinics. Philadelphia, PA: Elsevier, April 2013, pp 251-258.

LETTER TO THE EDITOR

1. **Figueroa-Casas JB**, Esquinas AM. **Prediction of Early and Late Re-intubation: Is It a Crossed or Separate Line?** Respir Care. 2014 Jul;59(7):e103.
2. **Porres-Aguilar M**, Gallegos-Orozco JF. **Hepatopulmonary syndrome: Is it time to redefine the MELD exception score for better organ allocation and outcomes?** Ann Hepatol. 2014 Jul-Aug;13(4):468-70.
3. **Porres-Aguilar M**, **Mukherjee D**. **Cardiopulmonary hemodynamics for accurate diagnosis of portopulmonary hypertension: A redefinition to consider.** Hepatology. 2014 May 22.
4. **Porres-Aguilar M**, **Mukherjee D**. **Fibrinolysis for intermediate-risk pulmonary embolism.** N Engl J Med 2014;371(6)(August 7):580-581.
5. **Porres-Aguilar M**, Porres-Muñoz M. **Controversial and future role of thrombolysis and endovascular therapies in submassive pulmonary embolism.** Arch Cardiol Mex. 2014 Apr-Jun;84(2):143-4.
6. **Casner PR**. **Commentary on "safety profile of high-dose statin therapy in geriatric patients with stroke"**. South Med J. 2013 Dec;106(12):665-6.

Medical Student, Resident, and Fellows Research Activity

(IM Resident/Fellow *Italics*, *Faculty Sponsor / Mentor*)

JOURNAL ARTICLES

1. *Alkhateeb H, Said S, Cooper CJ, Rodriguez-Castro C*, Dwivedi A, *Onate E, Quansah R, Mukherjee D*. **Clinical profiles and outcomes of acute aortic dissection in a predominantly Hispanic population.** Med Sci Monit. 2014 May 7;20:747-51.
2. *Castro-Combs J, Garcia CJ*, Majewski M, Wallner G, *Sarosiek J*. **Impaired Viscosity of Gastric Secretion and Its Mucin Content as Potential Contributing Factors to the Development of Chronic Constipation.** Dig Dis Sci. 2014 Jun 4. [Epub ahead of print]
3. *Cooper CJ, Said S, Bizet J, Alkhateeb H, Sarosiek I, McCallum RW*. **Rapid or normal gastric emptying as new supportive criteria for diagnosing cyclic vomiting syndrome in adults.** Med Sci Monit. 2014 Aug 22;20:1491-5.
4. *Elhanafi S, Ortiz AM*, Yarlagadda A, Tsai C, Eloliby M, Mallawaarachchi I, Dwivedi A, *Zuckerman MJ, Othman MO*. **Estimation of the Adenoma Detection Rate From the Polyp Detection Rate by Using a Conversion Factor in a Predominantly Hispanic Population.** J Clin Gastroenterol. (2014) In Press.
5. *Lalude OO, Gutarra MF, Pollono EN*, Lee S, Tarwater PM. **Inappropriate utilization of SPECT myocardial perfusion imaging on the USA-Mexico border.** J Nucl Cardiol. 2014 Jun;21(3):544-52.
6. *Ortiz AM, Patham B, Zuckerman MJ, Othman MO*. **Recurrence rate of colorectal polyps after endoscopic mucosal resection: a systematic review and meta-analysis.** Southern Med J 2014 (in press).
7. *Rodríguez CE, Lyapin A, Pattathan M, Negrin J, Mukherjee D*. **Prevalence and Predictors of Left Ventricular Diastolic Dysfunction in a Hispanic Patient Population.** Intl J Angiology 22(4):229-34, December 2013.
8. *Said S, Cooper CJ, Alkhateeb H, Gosavi S*, Dwivedi A, *Onate E, Paez D, Abedin Z*. **Incidence of new onset atrial fibrillation in patients with permanent pacemakers and the relation to the pacing mode.** Med Sci Monit. 2014 Feb 18;20:268-73.
9. *Song GQ, Sun Y*, Foreman RD, Chen JD. **Therapeutic potential of spinal cord stimulation for gastrointestinal motility disorders: a preliminary rodent study.** Neurogastroenterol Motil. 2014 Mar;26(3):377-84.
10. *Sun Y*, Tan Y, *Song G*, Chen JD. **Effects and mechanisms of gastric electrical stimulation on visceral pain in a rodent model of gastric hyperalgesia secondary to**

chemically induced mucosal ulceration. Neurogastroenterol Motil. 2014 Feb;26(2):176-86.

REVIEWS – EDITORIALS

Hejazi RA, McCallum RW. Rumination Syndrome: A Review of Current Concepts and Treatments. Am J Med Sci. 2014 Oct;348(4):324-9.

Hejazi RA, McCallum RW. Cyclic vomiting syndrome: treatment options. Exp Brain Res. 2014 Aug; 232(8):2549-52.

Patham B, Mukherjee D, San Juan ZT. Contemporary review of drugs used to treat obesity. Cardiovasc Hematol Agents Med Chem. 2013 Dec;11(4):272-80.

Said S, Hernandez GT. The link between chronic kidney disease and cardiovascular disease. J Nephropathol. 2014 Jul;3(3):99-104.

Said S, Nwosu AC, Mukherjee D, Hernandez GT. Alogliptin; A Review of a New Dipeptidyl Peptidase-4 (DPP-4) Inhibitor for the Treatment of Type 2 Diabetes Mellitus. Cardiovasc Hematol Disord Drug Targets. 2014;14(1):64-70.

Said S, Mukherjee D. Serelaxin: New Investigational Treatment in Acute Heart Failure. Cardiovasc Hematol Agents Med Chem. 2013 Sep;11(3):243-8

Said S, Porres-Aguilar M, Porres-Munoz M, Mukherjee D. Eisenmenger syndrome: recent advances in pharmacotherapy. Cardiovasc Hematol Agents Med Chem. 2013 Dec;11(4):289-96.

Sun Y, Song G, McCallum RW. Evaluation of acotiamide for the treatment of functional dyspepsia. Expert Opin Drug Metab Toxicol. 2014 Aug;10(8):1161-8.

Switzer MP, Nwosu AC, San Juan Z, Mukherjee D. Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9) and LDL Lowering in the Contemporary Management of Dyslipidemia. Cardiovasc Hematol Agents Med Chem. 2013 Dec;11(4):281-8.

ABSTRACTS

Elhanafi S, Ortiz A, Yarlagadda A, Tsai C, Eloliby M, Mallawaarachchi I, Zuckerman M, Othman M. **Validation of the use of a conversion factor to estimate the adenoma detection rate from the polyp detection rate.** Am J Gastroenterol 2013;108 (Suppl 1): S641-S642.

Elhanafi S, Saadi M, Lou W, Mallawaarachchi I, Zuckerman M, Dwivedi A, Othman M. **Gastric polyps: association with H. pylori status and the pathology of the surrounding mucosa, a retrospective study.** Gastrointest Endosc 2014;79 (Suppl): AB478.

Jia Y, Elhanafi S, Ortiz A, Othman M, Zuckerman M. **Risk of bacteremia after endoscopic sclerotherapy of esophageal varices: a systematic review.** Am J Gastroenterol 2013;108 (Suppl1): S578-S579.

Jia Y, Elhanafi S, Ortiz A, Othman M, Zuckerman M. **Risk of bacteremia after endoscopic injection of varices with cyanoacrylate: a systematic review.** Gastrointest Endosc 2014;79 (Suppl): AB302.

Jia Y, Ortiz AM, Zuckerman M, Othman MO. **Risk of bacteremia after endoscopic banding ligation of esophageal varices: a systematic review.** Gastrointest Endosc 2013; 77: AB324 – AB325.

Nahleh ZA, Arenas J, Otoukesh S, Nasrazadani A, Sanchez L, Alvarado A, Padilla O, Dwivedi A. **Concordance of Ki-67 with 21-gene expression profile (RS) in early-stage breast cancer.** J Clin Oncol. 2014;32 (suppl; abstr e11510).

Othman M, Guerrero R, Elhanafi S, Davis B, Houle J, Eloliby M, Hernandez J, Zuckerman M. **A prospective study of the risk of bacteremia in directed cholangioscopic examination of the common bile duct.** Am J Gastroenterol. 2013; 108 (Suppl1): S74-S75.

CASE REPORTS

Alkhateeb H, Said S, Cooper CJ, Elhanafi S, Teleb M, Saifuddin F, Mukherjee D, Abbas A, Davis HE 2nd. **Myopericarditis as a complication of nonspecific colitis**. Am J Case Rep. 2014 Feb 21;15:82-4.

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Cooper CJ, Said S. **West Nile virus encephalitis induced opsoclonus-myoclonus syndrome**. Neurol Int. 2014 Apr 22;6(2):5359.

Cooper CJ, Said S, Popp M, Alkhateeb H, Rodriguez C, Porres Aguilar M, Alozie O. **A complicated case of an immunocompetent patient with disseminated nocardiosis**. Infect Dis Rep. 2014 Apr 4;6(1):5327

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OPEN, ACTIVE, ONGOING RESEARCH
Investigator Initiated Research Studies
GRANT FUNDED FY14

➤ **Continuation of the NIDDK Gastroparesis Consortium** Co-PIs- Richard McCallum, MD and Irene Sarosiek, MD [NIH/NIDDK](#). 09/01/2011 – 08/31/2016. **\$2,075,556**

Year 3 – 09/01/2013 – 08/31/2014 - \$386,847

- *Gastroparesis Registry 2 (GpR 2): Continuation of the NIDDK Registry for the Characterization and Clinical Course of Gastroparesis Patients*
- *Pilot Study of the Safety, Feasibility, and Potential Efficacy of Continuous Glucose Monitoring and Insulin Pump Therapy in Diabetic Gastroparesis (GLUMIT-DG)*
- *Aprepitant for the Relief of Nausea in Patients with Chronic Nausea and Vomiting of Presumed Gastric Origin. A Multicenter, Randomized, Double-Masked, Placebo-Controlled Trial (APRON)*
- *Understanding The Pathological Basis Of Gastroparesis And Identification Of The Molecular Factors Involved In Its Pathogenesis*

➤ **Establishing a Cancer Clinical Research Core facility at Texas Tech University Health Science Center in El Paso** – PI Zeina Nahleh, MD. [Cancer Prevention & Research Institute of TEXAS \(CPRIT\)](#) 01 Dec 2011 – 30 Nov 2016. - **\$1,500,000.00**

➤ **A Prospective Study of the Risk of Bacteremia in directed Cholangioscopic examination of the CBD.** PI - Mohamed O Othman, MD. “Smaller Programs” [Clinical Research Award from the American College of Gastroenterology](#). 1 July 2012 – 31 December 2013. \$11,500

➤ **Endosonography for Examination of the Structural Changes of the Stomach.** PI – Mohamed O Othman, MD. [Paul L. Foster SOM, Seed Grant](#) 3/1/2013 to 08/31/2014. \$19,750

➤ **Reduction of re-hospitalization in Heart Failure Patients Using Body Weight Surveillance**

PI Enoch Agunanne, MD, [IM Cardiology Fellow], [Debabrata Mukherjee](#), MD [Faculty Mentor] [American Medical Association \(AMA\) 2014 Seed Grant Research Program](#), April 2014 - April 2015. - \$2,500

➤ **Synchronized Transcutaneous Electroacupuncture for Idiopathic Gastroparesis.** PI - Richard McCallum. [International Foundation for Functional Gastrointestinal Disorders, 2013 IFFGD Research Grant](#). January 1 2014 – December 31 2104. - \$40,000.

➤ **An Investigation of Cytokines as Potential Biomarkers for Gastroparesis and Diabetes among Postmenopausal Female** – PI Irene Sarosiek, MD. - [Laura W. Bush Institute for Women's Health and University Medical Center Women's Health Research Scholar Fund](#) -\$22,265

➤ **An Investigation of Cytokines as Potential Biomarkers for Gastroparesis and Diabetes among Postmenopausal Female** – PI Irene Sarosiek, MD. - [Laura W. Bush Institute for Women's Health and University Medical Center Women's Health Research Scholar Fund](#) – October 2013- June 2015 \$22,265

- **Genomic Characterization of Diabetic Gastroparesis- PI- Irene Sarosiek, MD NIH/NIDDK DiaComp: October 2012- June 2014- \$99,999.00**
- **Inflammatory cytokines in male diabetic gastroparesis patients –PI Irene Sarosiek, MD TTUHSC PLFSOM SARP award May 2014-May 2015: \$3998**
- **Efficacy of Linaclotide in Type II Diabetics with Chronic Constipation: A Randomized, Double- Blind, Placebo-Controlled, and Cross-Over Trial- PI Irene Sarosiek, MD- Forest Research Institute Inc, IIT- February 2014- February 2016 : \$100, 300.00**

Department of Internal Medicine Internal Seed Grant Funded - Cycle 5

- ***Reduction of re-hospitalization in Hear Failure Patients Utilizing Body Weight Surveillance –***
Dr. Abbas & Dr. Agunanne
- ***Defining Cluster Components of the Metabolic Syndrome in Border State Hispanics -*** Dr. Gough & Dr. Dochee
- ***Effects of Transcutaneous Electroacupuncture (TEA) on Brain Function and Gastric Function in Gastroparesis -*** Dr. McCallum, Dr. Song, & Dr. Sun
- ***Bacterial Genotyping in Patients with Small Intestinal Bacterial Overgrowth -*** Dr. Mendoza Ladd
- ***Epithelial-Mesenchymal Transition (EMT) Markers in Hispanic Breast Cancer Patients Receiving Neoadjuvant (preoperative) Chemotherapy and Correlation with Pathological Response -*** Dr. Nahleh & Dr. El Far
- ***Prevalence and characterization (outcomes) of Lung Vascular Disorders in Hispano-American Population with Portal Hypertension/Liver Cirrhosis -*** Dr. Porres