

# Annual Research Productivity Report



TEXAS TECH UNIVERSITY  
HEALTH SCIENCES CENTER™  
EL PASO

Paul L. Foster School of Medicine  
*Department of Internal Medicine*



**Department of Internal Medicine**

**FY 2019**

**1 September 2018 – 31 August 2019**

Prepared by: Sean M. Connery & Karina Espino

Dear Friends,

I am very pleased to bring you the annual Internal Medicine departmental research productivity report for FY19. The department had another productive year, with **47** peer-reviewed publications, several textbooks chapters and a number of regional and national presentations. While the number of publications remains impressive and is an important metric, what impresses me is the quality of the articles and the high-impact journals they are published in. In addition, department faculty edited two major textbooks—a daunting and impactful undertaking. Let me take this opportunity to congratulate our faculty, residents and fellows 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 a resource to them.

I am happy to note that our house staff remain very productive and reflect their commitment, enthusiasm and also mentoring/guidance by our program directors. 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, M.D., M.S.  
Chair, Department of Internal Medicine

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## PubMed Publications TTUHSC El Paso Dept of Internal Medicine 2018-2019\*

### IM Faculty Member

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

### PUBMED PEER REVIEW PUBLICATIONS

#### JOURNAL ARTICLES, ORIGINAL INVESTIGATIONS

1. Arazi A, Rao DA, Berthier CC, Davidson A, Liu Y, **Payan-Schober F** .....; Accelerating Medicines Partnership in SLE network. [The immune cell landscape in kidneys of patients with lupus nephritis.](#) Nat Immunol. 2019 Jul;20(7):902-914. PMID: [31209404](#)
2. Avalos DJ, **Zuckerman MJ**, Dwivedi A, Dodoo C, Satiya J, Castro FJ. [Differences in Prevalence of Large Polyps Between Hispanic Americans from Mexican- and Non-Mexican-Predominant States.](#) Dig Dis Sci. 2019 Jan;64(1):232-240. PMID: [30276570](#)
3. Blankenship JC, Choi JW, Das TS, McElgunn PM, **Mukherjee D**,... et al. [SCAI/ACVP expert consensus statement on cardiovascular catheterization laboratory economics: If the cath lab is your home you should understand its finances: This statement was endorsed by the Alliance of Cardiovascular Professionals \(ACVP\) in April 2019.](#) Catheter Cardiovasc Interv. 2019 Jul 1;94(1):123-135. PMID: [31104353](#)
4. Hasler WL, Wilson LA, Nguyen LA, Snape WJ, Abell TL, Koch K, **McCallum RW**, Pasricha PJ, **Sarosiek I**, et al., Gastroparesis Clinical Research Consortium. [Opioid Use and Potency Are Associated With Clinical Features, Quality of Life, and Use of Resources in Patients With Gastroparesis.](#) Clin Gastroenterol Hepatol. 2019 Jun;17(7):1285-1294.e1 PMID: [30326297](#)
5. Joshi A, Punke EB, Mehmetoglu-Gurbuz T, **Peralta DP**, Garg H. [TLR9 polymorphism correlates with immune activation, CD4 decline and plasma IP10 levels in HIV patients.](#) BMC Infect Dis. 2019 Jan 16;19(1):56. PMID: [30651082](#)
6. **Kar S**, Teleb M, Albaghdadi A, Ibrahim A, **Mukherjee D**. [Efficacy of Low-Dose Compared With Standard-Dose Radiation for Cardiac Catheterization and Intervention \(KAR RAD Study\).](#) J Invasive Cardiol. 2019 Jun;31(6):187-194. PMID: [30865914](#)
7. Lee AA, Rao S, Nguyen LA, Moshiree B, **Sarosiek I**,..., **McCallum RW**, et al. [Validation of Diagnostic and Performance Characteristics of the Wireless Motility Capsule in Patients With Suspected Gastroparesis.](#) Clin Gastroenterol Hepatol. 2018 Dec 14. pii: S1542-3565(18)31381-8. PMID: [30557741](#)
8. Moraveji S, Casner N, Bashashati M, Garcia C, Dwivedi A, **Zuckerman MJ**, Carrion A, **Ladd AM**. [The Role Of Oral Simethicone On The Adenoma Detection Rate And Other Quality Indicators Of](#)

Screening Colonoscopy: A Randomized, Controlled, Observer-Blinded Clinical Trial. *Gastrointest Endosc.* 2019 Jul;90(1):141-149. PMID: [30926430](#)

9. Parkman HP, Wilson LA, Hasler WL, **McCallum RW**, **Sarosiek I**, et al. [Abdominal Pain in Patients with Gastroparesis: Associations with Gastroparesis Symptoms, Etiology of Gastroparesis, Gastric Emptying, Somatization, and Quality of Life.](#) *Dig Dis Sci.* 2019 Mar 9. PMID: [30852767](#)
10. Parkman HP, Yamada G, Van Natta ML, Yates K, Hasler WL, **Sarosiek I**,... , **McCallum RW**. [Ethnic, Racial, and Sex Differences in Etiology, Symptoms, Treatment, and Symptom Outcomes of Patients with Gastroparesis.](#) *Clin Gastroenterol Hepatol.* 2019 Jul;17(8):1489-1499.e8. PMID: [30404035](#).
11. **Philipovski A**, **Corral J**, Dwivedi KA, Heydarian R, **Gaur S**. [Efficacy of Neoadjuvant Versus Adjuvant Chemotherapy in Hispanic/Latino \(H/L\) Women with Local or Locally Advanced Triple-negative Breast Cancer \(TNBC\).](#) *In Vivo.* 2019 Jul-Aug;33(4):1227-1234. PMID: [31280213](#)
12. Sardar P, Giri J, Jaff MR, Parikh SA, Kundu A,....., **Mukherjee D**, et al. [Strength of Evidence Underlying the American Heart Association/American College of Cardiology Guidelines on Endovascular and Surgical Treatment of Peripheral Vascular Disease.](#) *Circ Cardiovasc Interv.* 2019 Jan;12(1):e007244. PMID: [30608884](#)
13. Snodgrass P, Sandoval H, Calhoun VD, Ramos-Duran L, Song G, Sun Y, Alvarado B, Bashashati M, **Sarosiek I**, **McCallum RW**. [Central Nervous System Mechanisms of Nausea in Gastroparesis: An fMRI-Based Case-Control Study.](#) *Dig Dis Sci.* 2019 Sep 7. PMID: [31494751](#)
14. Tarasiuk A, Milad M, Ahmed ST, Majewski M, Wallner G, Fichna J, Bashashati M, **Sarosiek J**. [Response to lubiprostone in chronic constipation is associated with increased mucus and mucin output: a randomized clinical trial.](#) *J Gastrointest Liver Dis.* 2019 Sep 1;28(3):263-264. PMID: [31517334](#)
15. Tripathi B, Yeh RW, Bavishi CP, Sardar P, Atti V, **Mukherjee D**, et al. [Etiologies, trends, and predictors of readmission in ST-elevation myocardial infarction patients undergoing multivessel percutaneous coronary intervention.](#) *Catheter Cardiovasc Interv.* 2019 Jun 4. PMID: [31165573](#)
16. Venkatesan T, Levinthal DJ, Tarbell SE, Jaradeh SS, Hasler WL, Issenman RM, Adam KA, **Sarosiek I**, et al. [Guidelines on management of cyclic vomiting syndrome in adults by the American Neurogastroenterology and Motility Society and the Cyclic Vomiting Syndrome Association.](#) *Neurogastroenterol Motil.* 2019 Jun;31 Suppl 2:e13604. PMID: [31241819](#)

## **REVIEW - META ANALYSIS**

- 1) **Agrawal H, Lange RA**, Montanez R, Wali S, Mohammad KO, **Kar S**, Teleb M, **Mukherjee D**. [The Role of Percutaneous Coronary Intervention in the Treatment of Chronic Total Occlusions: Rationale and Review of the Literature](#). *Curr Vasc Pharmacol*. 2019;17(3):278-290. PMID: [29345588](#)
- 2) Avalos DJ, **Sarosiek I**, Loganathan P, **McCallum RW**. [Diabetic gastroparesis: current challenges and future prospects](#). *Clin Exp Gastroenterol*. 2018 Sep 25;11:347-363. PMID: [30310300](#)
- 3) Bhogal S, **Mukherjee D**, Bagai J, Truong HT, Panchal HB, et al. [Bivalirudin versus Heparin during intervention in Acute Coronary Syndrome: A Systematic Review of Randomized Trials](#). *Cardiovasc Hematol Disord Drug Targets*. 2019 Jun 26. PMID: [31241442](#)
- 4) Bhogal S, Panchal HB, Bagai J, Banerjee S, Brilakis ES, **Mukherjee D**, et al. [Drug eluting versus bare metal stents in saphenous vein graft intervention: An updated comprehensive meta-analysis of randomized trials](#). *Cardiovasc Revasc Med*. 2018 Nov 22. pii: S1553-8389(18)30528-1. PMID: [30503811](#)
- 5) **Carrion AF**, Rosen JD, Levy C. [Understanding and Treating Pruritus in Primary Biliary Cholangitis](#). *Clin Liver Dis*. 2018 Aug;22(3):517-532. PMID: [30259850](#)
- 6) Galura GM, Chavez LO, Robles A, **McCallum R**. [Gastroduodenal Injury: Role of Protective Factors](#). *Curr Gastroenterol Rep*. 2019 Jul 10;21(8):34. PMID: [31289921](#)
- 7) Hasler WL, Levinthal DJ, Tarbell SE, Adams KA, Li BUK, Issenman RM, **Sarosiek I**, et al. [Cyclic vomiting syndrome: Pathophysiology, comorbidities, and future research directions](#). *Neurogastroenterol Motil*. 2019 Jun;31 Suppl 2:e13607. PMID: [31241816](#)
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- 9) **Kar S**. [Outcomes of New-Generation Drug-Eluting Stents in Women with Acute Myocardial Infarction](#). *Curr Cardiol Rep*. 2019 Jan 10;21(1):2. PMID: [30631965](#)
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- 11) Khan AA, Panchal HB, Zaidi SIM, Papireddy MR, **Mukherjee D**, et al. [Safety and efficacy of radial versus femoral access for rotational Atherectomy: A systematic review and meta-analysis](#). *Cardiovasc Revasc Med*. 2019 Mar;20(3):241-247. PMID: [30030065](#)

- 12) Loganathan P, Gajendran M, **McCallum RW**. [Clinical Manifestation and Natural History of Gastroparesis](#). *Gastrointest Endosc Clin N Am*. 2019 Jan;29(1):27-38. PMID: [30396526](#)
- 13) Murtaza G, Virk HUH, Khalid M, Lavie CJ, Ventura H, **Mukherjee D**, et al. [Diabetic cardiomyopathy - A comprehensive updated review](#). *Prog Cardiovasc Dis*. 2019 Mar 25. pii: S0033-0620(19)30051-9. PMID: [30922976](#)
- 14) Murray CSG, **Siddiqui T**, Keller N, Chowdhury S, Nahar T. [Physiology-Guided Management of Serial/Diffuse Coronary Artery Disease](#). *Curr Cardiol Rep*. 2019 Mar 7;21(4):25. PMID: [30847746](#)
- 15) Robles A, Michael M, **McCallum R**. [Pseudocholinesterase Deficiency: What the Proceduralist Needs to Know](#). *Am J Med Sci*. 2019 Mar;357(3):263-267. PMID: [30578021](#)
- 16) Robles A, Perez Ingles D, Myneedu K, **Deoker A, Sarosiek I, Zuckerman MJ**, Schmulson MJ, Bashashati M. [Mast cells are increased in the small intestinal mucosa of patients with irritable bowel syndrome: A systematic review and meta-analysis](#). *Neurogastroenterol Motil*. 2019 Sep 9:e13718. PMID: [31498961](#)
- 17) Sharaf RN, Venkatesan T, Shah R, Levinthal DJ, Tarbell SE, Jaradeh SS, Hasler WL, Issenman RM, Adams KA, **Sarosiek I**, et al. [Management of cyclic vomiting syndrome in adults: Evidence review](#). *Neurogastroenterol Motil*. 2019 Jun;31 Suppl 2:e13605. PMID: [31241818](#)
- 18) Sitwala P, Khalid MF, Khattak F, Bagai J, Bhogal S, Ladia V, **Mukherjee D**, et al. [Percutaneous closure of patent foramen ovale in patients with cryptogenic stroke - An updated comprehensive meta-analysis](#). *Cardiovasc Revasc Med*. 2018 Sep 19. pii: S1553-8389(18)30412-3. PMID: [30282597](#)
- 19) Trotter A, Anstadt E, Clark RB, Nichols F, Dwivedi A, **Aung K**, Cervantes JL. [The role of phospholipase A2 in multiple Sclerosis: A systematic review and meta-analysis](#). *Mult Scler Relat Disord*. 2019 Jan;27:206-213. PMID: [30412818](#)
- 20) Venkatesan T, Levinthal DJ, Li BUK, Tarbell SE, Adams KA, Issenman RM, **Sarosiek I**, et al. [Role of chronic cannabis use: Cyclic vomiting syndrome vs cannabinoid hyperemesis syndrome](#). *Neurogastroenterol Motil*. 2019 Jun;31 Suppl 2:e13606. PMID: [31241817](#)

## **CASE REPORTS**

1. McAlice M, Gohar M, Alshaban A, Orazi A, Tonk V, Chavali S, Tonk S, **Gaur S**. [A Rare Case of Acute Myeloid Leukemia with der\(1\)t\(1;19\)\(p13;p13.1\)](#). *Leuk Res Rep*. 2019 Jun 8;12:100175. PMID: [31245275](#)



2. Qureshi IA, Zul-Farah S, Carbajal L, **Chang A**. 33-year-old HIV-positive patient presenting with primary effusion lymphoma. Clin Case Rep. 2018 Oct 9;6(11):2289-2290. PMID: [30455942](#)

## **EDITORIALS**

1. Bustamante Bernal M, Bhat S, **Mendoza-Ladd A**. Endoscopic closure of a chronic tracheo-esophageal fistula with an over-the-scope suturing technique. Endoscopy. 2018 Jul;50(7):E155-E156. PMID: [29772588](#)
2. **McCallum RW**, Bashashati M. Cannabis for Gastroparesis: Hype or Hope? Am J Gastroenterol. 2019 Jun;114(6):865-866. PMID: [31135448](#)
3. **Mukherjee D**. Cardiovascular and Hematological Medicine in 2018 - Advances and Insights. Cardiovasc Hematol Agents Med Chem. 2018;16(1):2. PMID: [30215326](#)
4. **Mukherjee D**. Myocardial Infarction With Nonobstructive Coronary Arteries: A Call for Individualized Treatment. J Am Heart Assoc. 2019 Jul 16;8(14):e013361. PMID: [31284819](#)
5. **Mukherjee D**. In AF with recent ACS or PCI, apixaban reduced bleeding vs VKAs; aspirin increased bleeding vs placebo. Ann Intern Med. 171(2):JC7. PubMed PMID: [31307068](#)
6. **Mukherjee D**, Roffi M. Minimizing Distal Embolization During Carotid Artery Stenting. JACC Cardiovasc Interv. 2019 Feb 25;12(4):404-405. PMID: [30784648](#)
7. Paul TK, **Mukherjee D**. Silent myocardial infarction and risk of heart failure. Ann Transl Med. 2018 Nov;6(Suppl 1):S35. PMID: [30613610](#)
8. Porres-Aguilar M, Jiménez D, Porres-Muñoz M, **Mukherjee D**. Pulmonary embolism response teams: Purpose, evidence for efficacy, and future research directions. Research and Practice in Thrombosis and Haemostasis DOI: 10.1002/rth2.12249 [Epub ahead of print] August 2019
9. Roffi M, **Mukherjee D**. Treatment-risk paradox in acute coronary syndromes. Eur Heart J. 2018 Nov 7;39(42):3807-3809. PMID: [30247536](#)



## **BOOKS/BOOK CHAPTERS**

### **BOOKS:**

- 1) **Mukherjee D, Lange, RA**, Chatterjee S, Cho L, Moliterno D (eds). [1133 Questions: An Interventional Cardiology Board Review](#). Third Edition. Wolters Kluwer 2019 ISBN-13: 978-1496386199
- 2) **Mukherjee D**, Bates ER, **Lange RA**, Roffi M, Moliterno DJ (eds). [Cardiovascular Catheterization and Intervention. A Textbook of Coronary, Peripheral and Structural Heart Disease \(second edition\)](#). Informa Healthcare, London, 2018. ISBN-13: 978-1841846644

### **BOOK CHAPTERS:**

1. **Bright TM**, Rehman AU. [Hirsutism and Virilization](#). In: Michael McDermott, MD ed. Endocrine Secrets 7<sup>th</sup> Edition. Elsevier, St. Louis 2019, Chapter 55, pages 427-432.
2. **Lange RA, Mukherjee D**. [Acute Coronary Syndrome: Unstable Angina and Non-ST Elevation](#). In: Goldman L, Schafer A (Eds) Goldman-Cecil Medicine, 26<sup>th</sup> Edition. Elsevier. pp 635 – 648, 2020.
3. **Lange RA** and Hillis LD. [Drug and Toxin Induced Cardiomyopathies](#). In: Mann DL, Zipes DP, Libby P, Bonow RO, and Braunwald E (eds). Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine. Eleventh Edition. Philadelphia: Elsevier Saunders; 2018.
4. **Lange RA** and Hillis LD. [Congenital Heart Disease](#). In: Bope ET, Kellerman RD (eds). Conn's Current Therapy 2018 (Expert Consult: Online and Print). Philadelphia: Elsevier; 2018, Section 3, pages 106-111.
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6. Messerli A, Ziada K and **Mukherjee D**. [Peri-Procedural MI and Emboli Protection](#). In: Topol EJ, Tierstein P (Eds) Textbook of Interventional Cardiology, 8<sup>th</sup> Edition. Philadelphia, PA: W.B. Saunders, pp 135 – 148, 2019. Hardcover ISBN: 9780323568142
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8. **Mukherjee D**. [Approach to Interventional Boards and Test Taking Strategies](#). In: **Mukherjee D**, Cho L, Lange RA, Chatterjee S, Moliterno DJ (Eds). [1133 Questions: An interventional cardiology board review](#). Philadelphia, PA: Lippincott Raven, 2018, pp 510-515
9. **Mukherjee D**. [Lower extremity interventions](#). In Topol EJ, Tierstein P (Eds) Textbook of Interventional Cardiology, 8<sup>th</sup> Edition. Philadelphia, PA: W.B. Saunders, pp 121-134, 2019. Hardcover ISBN: 9780323568142

### **MULTIMEDIA/Online Publications**

1. **Mukherjee D**. [Upper Extremity and Vertebral Angiography and Interventions](#) In: Cardiac Catheterization and Interventional Cardiology Self-Assessment Program (CATHSAP) 5 Update [American College of Cardiology], 2018 <https://www.acc.org/education-and-meetings/products-and-resources/cathsap-5>
2. **Mukherjee D**. [Unique Subgroups—Diabetes, Renal Failure, Advanced Age](#) In: Cardiac Catheterization and Interventional Cardiology Self-Assessment Program (CATHSAP) 5 Update [American College of Cardiology], 2018. <https://www.acc.org/education-and-meetings/products-and-resources/cathsap-5>
3. **Mukherjee D**. American Heart Association Science News Commentaries The Under-Recognized Burgeoning Cardiovascular Risks of Water Pipe or Hookah Smoking, May 2019

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4. Oduyebo I, Malespin M, **Mendoza Ladd A**, et al. Underserved populations and colorectal cancer screening: Patient perceptions of barriers to care and effective interventions. <https://www.mdedge.com/gihepnews/article/164027/endoscopy/underserved-populations-and-colorectal-cancer-screening-patient>
5. Gyanendra, S. Atrial myxoma. In **Lange RA** (ed). Medscape. June 2019. Available at: <https://emedicine.medscape.com/article/151362-overview>
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7. **L. Aimee Hechanova**. Merck Manual Consumer Version. **Disorders of Kidney Tubules**. February 2019. Available at: <https://www.merckmanuals.com/home/kidney-and-urinary-tract-disorders/disorders-of-kidney-tubules/introduction-to-disorders-of-kidney-tubules>
8. **L. Aimee Hechanova**. Merck Manual Professional Version. **Renal Transport Abnormalities**. January 2019. Available at: <https://www.merckmanuals.com/professional/genitourinary-disorders/renal-transport-abnormalities/introduction-to-renal-transport-abnormalities>
9. **Syed S, Mukherjee D, Kar S**. Outcomes of Ulnar vs. Radial Cardiac Catheterization and Intervention Using Ultrasound Guidance. Transcatheter and Cardiovascular Therapeutics Scientific Convention 2018. TCTMD. <https://www.tctmd.com/slide/outcomes-ulnar-vs-radial-cardiac-catheterization-and-intervention-using-ultrasound-guidance-0>

## **Abstracts**

1. Abell, T; Yamada, G; Parkman, HP; **McCallum, RW**; Koch, KL; Kuo, B; **Sarosiek, I**; et al. [Clinical Characteristics of Patients with Symptoms of Gastroparesis and History of Pancreatitis.](#) *Gastroenterology* 2019. Volume 156, Issue 6, S-553–S-554. (Abstract 1446)
2. Abolbashari M, **Kar S**. [Symptomatic Double Right Coronary Artery with Inferior Wall Ischemia.](#) *J Am Coll Cardiol*. March 12, 2019, 73 (9 Supplement 1) 2875.
3. **Al-Bayati I**, Al-Obaidi S, Romero Y., Davis B., **Sarosiek I, McCallum RW**. [Efficacy and safety of Dor fundoplication in patients with severe: Gastroparesis and refractory gastroesophageal reflux disease.](#) *Neurogastroenterology & Motility*, Volume 31, Issue S3Volume31, IssueS3 August 2019
4. Avalos DJ, Satiya J, Bashashati M, **Zuckerman M, Mendoza-Ladd A, Sarosiek I, McCallum RW**. [G-Poem Improves Clinical Symptoms and Gastric Emptying in Gastroparesis: A Systematic Review and Meta-Analysis.](#) *Gastroenterology*. May 2018Volume 154, Issue 6, Supplement 1, Page S-320
5. Bashashati M, **Sarosiek I**, Davis BR, Diaz JR, Padilla O, Espino K, **McCallum RW**. [Combined Gastric Electrical Stimulation Pyloroplasty Improves Gastroparesis Symptoms and Gastric Emptying Without Affecting the Count of Antral Interstitial Cells of Cajal.](#) *Gastroenterology*, Volume 156, Issue 6, S-795
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7. Grover M; Dasari S; Bernard C; Parkman HP; Yates KP; Abell T; **Sarosiek I, McCallum RW**; ... et al. [Proteomics in Gastroparesis: Unique and Overlapping Protein Signatures in Diabetic and Idiopathic Gastroparesis.](#) *Gastroenterology* 2019. Volume 156, Issue 6, S-87–S-88. (Abstract 432).
8. Ibrahim A, Khalil P, Hussain S, **Nagarajarao H**, Mares A, **Ojha C**. [Management of ST Elevation Myocardial Infarction in the Setting of a Myocardial Bridge: Is There Any Light at the End of the Tunnel?](#) *J Am Coll Cardiol* Mar 2019, 73 (9 Supplement 1) 2406.
9. **Kar S**, Syed S. [Gender Outcomes and Comparisons of Ultrasound Guided Ulnar vs. Radial Cardiac Catheterization and Percutaneous Coronary Intervention.](#) *Catheterization and Cardiovascular Interventions*. 2019 May 21; 93 (S2\_S30).
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11. Khalil P, Tebeb M, **Kar S**. [Pre-Operative Assessment Reveals A Single Coronary System Arising From The Right Coronary Ostium](#). *J Am Coll Cardiol* Mar 2019, 73 (9 Supplement 1) 2306.
12. Orthey, P; Van Natta, ML; Parkman, HP; Koch, KL; Kuo, B; **Sarosiek, I**;.....; **McCallum, RW**; et al. [Gastric Retention in Gastroparesis: Relationship of Proximal, Distal, and Total Gastric Retention to Symptoms](#). *Gastroenterology* 2019. Volume 156, Issue 6, S-792. (Abstract 1589)
13. Panchangam S, He M, **Marmol Velez J, Ojha C, Khair T**. [It all Started with a Sneeze: an Unfortunate Tale of Infective Endocarditis](#). *J Am Coll Cardiol* Volume 73, Issue 9 Supplement 1, March 2019, page 2994.
14. Panchangam S, He M, **Siddiqui T, Khair T**. [The Unknown Territory: Non-Aneurysmal, Non-Atherosclerotic Aortic Mural Thrombus - An Unusual Source Of Embolism](#). *J Am Coll Cardiol* Volume 73, Issue 9, Supplement 1, 12 March 2019, Page 2535
15. Parkman, HP; Wilson, L; Koch, KL; Hasler, WL; Nguyen, LAB; Abell, T; Snape, WJ; Clarke, JO; Kuo, B; **McCallum RW; Sarosiek I**, et al. [Does Other End-Organ Damage Correlate with Risk of Gastroparesis in Diabetics?](#) *Gastroenterology* 2019. Volume 156, Issue 6, S-792–S-793. (Abstract 1591)
16. Parkman, HP; Sharkey, E; Nguyen, LAB; Yates, KP; Snape, WJ; Clarke, JO; Hasler, WL; Koch, KL; **McCallum, RW; Sarosiek, I**; ... et al. [Marijuana Use in Patients with Symptoms of Gastroparesis: Prevalence, Patient Characteristics, and Perceived Benefit](#). *Gastroenterology* 2019. Volume 156, Issue 6, S-793. (Abstract 1592)
17. Parkman, HP; Yamada, G; **McCallum, RW**; Koch, KL; Kuo, B; **Sarosiek, I**; et al. [Body Weight and Body Weight in Gastroparesis: Relationship to Symptoms of Gastroparesis](#). *Gastroenterology* 2019. Volume 156, Issue 6, S-792. (Abstract 1590)
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20. Robles A, Quezada H, Romero YA, Tatro E, **McCallum RW**. [A new treatment regimen achieves effective outcomes in rumination syndrome: a single-center experience](#). *Neurogastroenterology & Motility* Volume 31, Issue S3Volume31, IssueS3 August 2019

21. **Sarosiek I**, Davis BR, Bashashati M, Padilla O, Vega N, Espino K, Aguirre K, **Sarosiek J**, **McCallum RW**. [Gastric Emptying Results from Wireless Motility Capsule is a Potential Marker for Pyloric Dysfunction in Gastroparetic Patients.](#) *Gastroenterology* Volume 156, Issue 6, S-787.
22. Shanker A, Ditangco R, **Bright T**. [Lithium Toxicity, Hypothyroidism, and SILENT.](#) *Texas Public Health Journal* 2019;71(3):5
23. **Uga A**, Ibilah T. [Hyperfamiliarity for Unknown Faces in a Patient with Lewy Body Dementia.](#) *CNS Spectr.* 2019 Feb;24(1):218.
24. Vareedayah AA, Yuen PYS, Skinner M, Koller K, Samer Alkaade S, . . . , **Mendoza Ladd AH**. [Initial North American Experience with Endoscopic Fullthickness Resection of Colorectal Lesions: A Multi-Center Retrospective Cohort Study.](#) *Gastroenterology* May 2019 Volume 156, Issue 6, Supplement 1, Page S-940.

**Resident & Fellow Research (PGY 1-6)**  
*Internal Medicine, Med/Psychiatry, and Preliminary (Neurology) Residents*  
*Fellows Gastroenterology and Cardiology*  
**Residents/Fellows (PGY 1-6), Faculty Mentor**

**JOURNAL ARTICLES, ORIGINAL INVESTIGATIONS**

1. Agha RA, Borrelli MR, Farwana R, Koshy K, Fowler AJ, Orgill DP; PROCESS Group. Collaborators (45).....**Bashashati M**, et al. [The PROCESS 2018 statement: Updating Consensus Preferred Reporting Of CasE Series in Surgery \(PROCESS\) guidelines.](#) Int J Surg. 2018 Dec;60:279-282. PMID: [30359781](#)
2. Agha RA, Borrelli MR, Farwana R, Koshy K, Fowler AJ, Orgill DP; SCARE Group. Collaborators (45)... **Bashashati M**, et al. [The SCARE 2018 statement: Updating consensus Surgical CAse REport \(SCARE\) guidelines.](#) Int J Surg. 2018 Dec;60:132-136. PubMed PMID: [30342279](#)
3. **Alashi A**, Khullar T, Mentias A, Gillinov AM, Roselli EE, et al. [Long-Term Outcomes After Aortic Valve Surgery in Patients With Asymptomatic Chronic Aortic Regurgitation and Preserved LVEF: Impact of Baseline and Follow-Up Global Longitudinal Strain.](#) JACC Cardiovasc Imaging. 2019 Feb 11. PMID: [30772216](#)
4. **Alashi A**, Lang R, Seballos R, Feinleib S, Sukol R, Cho L, Schoenhagen P, Griffin BP, Flamm SD, Desai MY. [Reclassification of coronary heart disease risk in a primary prevention setting: traditional risk factor assessment vs. coronary artery calcium scoring.](#) Cardiovasc Diagn Ther. 2019 Jun;9(3):214-220. PMID: 31275811
5. **Alashi A**, Riaz H, Lang R, Seballos R, Feinleib S, Sukol R, Cho L, Cremer P, Jaber W, Griffin BP, Desai MY. [Incremental Prognostic Value of Exercise Stress Testing in Primary Prevention.](#) Am J Cardiol. 2019 Jul 15;124(2):216-223. PMID: [31104779](#)
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10. **Kar S, Teleb M, Albaghdadi A, Ibrahim A, Mukherjee D.** [Efficacy of Low-Dose Compared With Standard-Dose Radiation for Cardiac Catheterization and Intervention \(KAR RAD Study\).](#) J Invasive Cardiol. 2019 Jun;31(6):187-194. PMID: [30865914](#)
11. **Moraveji S,** Casner N, **Bashashati M,** Garcia C, Dwivedi A, **Zuckerman MJ,** Carrion A, **Ladd AM.** [The Role Of Oral Simethicone On The Adenoma Detection Rate And Other Quality Indicators Of Screening Colonoscopy: A Randomized, Controlled, Observer-Blinded Clinical Trial.](#) Gastrointest Endosc. 2019 Jul;90(1):141-149. PMID: [30926430](#)
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## **REVIEW - META ANALYSIS**

- 1) **Agrawal H, Lange RA, Montanez R**, Wali S, **Mohammad KO, Kar S, Teleb M, Mukherjee D**. The Role of Percutaneous Coronary Intervention in the Treatment of Chronic Total Occlusions: Rationale and Review of the Literature. *Curr Vasc Pharmacol*. 2019;17(3):278-290. PMID: [29345588](#)
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- 3) **Galura GM, Chavez LO, Robles A, McCallum R**. Gastroduodenal Injury: Role of Protective Factors. *Curr Gastroenterol Rep*. 2019 Jul 10;21(8):34. PMID: [31289921](#)
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- 5) **Khalil P, Kabbach G**. Direct Oral Anticoagulants in Addition to Antiplatelet Therapy for Secondary Prevention after Acute Coronary Syndromes: a Review. *Curr Cardiol Rep*. 2019 Jan 28;21(1):5. PMID: [30689068](#)
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- 11) Schmulson M, **Bashashati M**. Fecal microbiota transfer for bowel disorders: efficacy or hype? *Curr Opin Pharmacol*. 2018 Dec;43:72-80. PubMed PMID: [30218939](#).

## **LETTER TO THE EDITOR/EDITORIALS/COMMENT**

- 1 **Alashi A**, Lang R, Seballos R, Feinleib S, Sukol R, et al. [Dilation of the Proximal Thoracic Aorta in an Asymptomatic Primary Prevention Population Undergoing Noncontrast Chest Computed Tomography](#). *Circulation*. 2019 Jan 22;139(4):557-558. PMID: [30586688](#)
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- 3 **Bashashati M**, Hejazi RA. [Overlap Between Gastric and Esophageal Motility Disorders: A Contractual Arrangement?](#) *Dig Dis Sci*. 2018 Dec;63(12):3164-3166. PMID: [30178282](#)
- 4 **Bustamante Bernal M, Bhat S, Mendoza-Ladd A**. [Endoscopic closure of a chronic tracheo-esophageal fistula with an over-the-scope suturing technique](#). *Endoscopy*. 2018 Jul;50(7):E155-E156. PMID: [29772588](#)
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## **CASE REPORTS**

- 1 **McAlice M, Gohar M, Alshaban A**, Orazi A, Tonk V, Chavali S, Tonk S, **Gaur S**. [A Rare Case of Acute Myeloid Leukemia with der\(1\)t\(1;19\)\(p13;p13.1\)](#). *Leuk Res Rep*. 2019 Jun 8;12:100175. PMID: [31245275](#)
- 2 Qureshi IA, **Zul-Farah S, Carbajal L, Chang A**. [33-year-old HIV-positive patient presenting with primary effusion lymphoma](#). *Clin Case Rep*. 2018 Oct 9;6(11):2289-2290. PMID: [30455942](#)

## Abstracts

1. **Abolbashari M, Kar S.** Symptomatic Double Right Coronary Artery with Inferior Wall Ischemia. *J Am Coll Cardiol.* March 12, 2019, 73 (9 Supplement 1) 2875.
2. Ahuja KR, Gad M, **Alashi A**, Bazarbashi N, Sammour Y, et al. Variation In In-Hospital Outcomes After Surgical Myectomy And Alcohol Septal Ablation Done For Hypertrophic Obstructive Cardiomyopathy: Comparison Of Nationwide Readmission Database Of Metropolitan Hospitals Versus A High Volume Center Of Excellence. *J Am Coll Cardiol.* Volume 73, Issue 9 Supplement 1, March 2019. 880.
3. **Alashi A**, Faulx J, Menon V, Kapadia S, Ellis S, et al. Characteristics and Outcomes Of Patients With Documented Stress Induced (Takotsubo) Cardiomyopathy: A Tertiary Care Center Experience. *J Am Coll Cardiol* Volume 73, Issue 9 Supplement 1, March 2019
4. **Alashi A**, Svensson L, Klein J, Zahka K, Smedira N, et al. Characteristics And Longer-Term Outcomes Of Pediatric Patients With Hypertrophic Cardiomyopathy: A Tertiary Care Center Experience. *J Am Coll Cardiol* Volume 73, Issue 9 Supplement 1, March 2019
5. **Al-Bayati I, Al-Obaidi S**, Romero Y., Davis B., **Sarosiek I, McCallum RW.** Efficacy and safety of Dor fundoplication in patients with severe: Gastroparesis and refractory gastroesophageal reflux disease. *Neurogastroenterology & Motility*, Volume 31, Issue S3Volume31, IssueS3 August 2019
6. **Avalos DJ, Satiya J, Bashashati M, Zuckerman M, Mendoza-Ladd A, Sarosiek I, McCallum RW.** G-Poem Improves Clinical Symptoms and Gastric Emptying in Gastroparesis: A Systematic Review and Meta-Analysis. *Gastroenterology.* May 2018Volume 154, Issue 6, Supplement 1, Page S-320
7. **Bashashati M**, Thakur V, Enriquez J, Chattopadhyay M. Inhibiting Fatty Acid Amide Hydrolase Ameliorates Diabetes Induced Diarrhea Through Cannabinoid 1 Receptor and Noncannabinoid 1 Mediated Mechanisms. *Gastroenterology* Volume 156, Issue 6, S-539 - S-540
8. **Bashashati M, Sarosiek I**, Davis BR, Diaz JR, Padilla O, Espino K, **McCallum RW.** Combined Gastric Electrical Stimulation Pyloroplasty Improves Gastroparesis Symptoms and Gastric Emptying Without Affecting the Count of Antral Interstitial Cells of Cajal. *Gastroenterology*, Volume 156, Issue 6, S-795
9. Donnellan E, **Alashi A**, Johnston D, Gillinov A, Svensson L, et al. Outcomes of Patients with Prior Mediastinal Radiotherapy Who Developed Predominantly Mitral Valve Disease Requiring Surgery. *J Am Coll Cardiol.* Volume 73, Issue 9 Supplement 1, March 2019.

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13. **Khalil P, Teleb M, Kar S.** Pre-Operative Assessment Reveals A Single Coronary System Arising From The Right Coronary Ostium. *J Am Coll Cardiol* Mar 2019, 73 (9 Supplement 1) 2306.
14. **Panchangam S, He M, Marmol Velez J, Ojha C, Khair T.** It all Started with a Sneeze: an Unfortunate Tale of Infective Endocarditis. *J Am Coll Cardiol* Volume 73, Issue 9 Supplement 1, March 2019, page 2994.
15. **Myneedu K, Schmulson MJ, Bashashati M.** Fecal Microbiota Transplantation (FMT) in Irritable Bowel Syndrome (IBS): A Systematic Review and Meta-Analysis. *Gastroenterology* Volume 156, Issue 6, Supplement 1, Page S-1157
16. **Panchangam S, He M, Siddiqui T, Khair T.** The Unknown Territory: Non-Aneurysmal, Non-Atherosclerotic Aortic Mural Thrombus - An Unusual Source Of Embolism. *J Am Coll Cardiol* Volume 73, Issue 9, Supplement 1, 12 March 2019, Page 2535
17. **Perez-Ingles D, Deoker A, Robles A, Sarosiek J, McCallum R, Sarosiek I, Schmulson M, Bashashati M.** Mucosal mast cells are increased in the small intestine of patients with irritable bowel syndrome: a systematic review and meta-analysis. *Am J Gastroenterol.* 2018; 113: S261-2.
18. **Robles A, Bashashati M, Perez-Ingles D, Rondon A, McAlice M, Gohar M, Loganathan P, Hahn J, Gaur S, Deoker A.** Colorectal cancer on the US-Mexico border: an epidemiological study in an indigent Hispanic population. *Am J Gastroenterol.* 2018; 113: S170.
19. **Robles A, Quezada H, Romero YA, Tatro E, McCallum RW.** A new treatment regimen achieves effective outcomes in rumination syndrome: a single-center experience. *Neurogastroenterology & Motility* Volume 31, Issue S3 Volume 31, Issue S3 August 2019
20. **Sarosiek I, Davis BR, Bashashati M, Padilla O, Vega N, Espino K, Aguirre K, Sarosiek J, McCallum RW.** Gastric Emptying Results from Wireless Motility Capsule is a Potential Marker for Pyloric Dysfunction in Gastroparetic Patients. *Gastroenterology* Volume 156, Issue 6, S-787.

21. **Shanker A, Ditangco R, Bright T.** Lithium Toxicity, Hypothyroidism, and SILENT. Texas Public Health Journal 2019;71(3):5
22. Umopathy C, **Loganathan P**, Dodoo C, Gajendran M. Predictors for Early Readmission in Cirrhosis in the United States - A Nationwide Population-based Study. *American Journal of Gastroenterology* Issue: Volume 113 Supplement, October 2018, p S460-S461

## OPEN, ACTIVE, ONGOING RESEARCH

### Investigator Initiated Research Studies

#### GRANT FUNDED FY19

- **New Concepts for Advancing Knowledge in Basic Science, Clinical, and Therapeutic Aspects of Gastroparesis** Co-PIs- **Richard McCallum, MD and Irene Sarosiek, MD** National Institutes of Health - National Institute of Diabetes and Digestive and Kidney Diseases (*NIH/NIDDK*). 09/25/2016 - 08/31/2021 \$1,870,531

FY17	\$382,500
FY18	\$378,366
FY19	\$374,151
FY20	\$369,887
FY21	\$365,627
	=====
	\$1,870,531

- **Pathway Exploration and Analysis in Renal Lupus (PEARL)** - Accelerating Medicines Partnership (AMP) – **PI: F. Payan-Schober, MD, Sub-I A Ahmad, MD.** Public-private partnership between the National Institutes of Health (NIH), the U.S. Food and Drug Administration (FDA), 10 biopharmaceutical companies and multiple non-profit organizations. NIH - National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) and the National Institute of Allergy and Infectious Diseases (NIAID).

Start Up Phase	July 2015 – Dec 2015	\$9,333
Phase 0	Dec 2015 – May 2016	\$12,401
Phase 1	Jan 2016- Aug 2016	\$29,535
Phase 2	June 2017 – 31 May 2020	\$66,290
		=====
	Total	\$117,559

## **Department of Internal Medicine Pilot Small Projects Funded - Cycle 10**

- Dr. Tamis Bright: **Bone Density and Aromatase Inhibitors**
- Dr. Javier Corral: **Mismatch repair enzyme deficiency in pancreatic cancer amongst Hispanic**
- Dr. Alexander Philipovskiy: **Adherence of Hispanic/Latina Breast Cancer Patients to Adjuvant Inhibitors (AIs) - Second Phase**
- Dr. Irene Sarosiek: **Endocannabinoid gene polymorphisms in diabetic gastroparesis: a case control study**
- Dr. Marc Zuckerman: **The epidemiology of functional gastrointestinal disorders on the U.S Mexico Border based on Rome IV criteria**

## **Pharmaceutically Sponsored Clinical Research Studies Open, Active Clinical Trials**

- **A Multicenter, Randomized, Double-Blinded, Placebo-Controlled Trial to Evaluate the Safety and Efficacy of Inhaled Treprostinil in Subjects with Pulmonary Hypertension due to Parenchymal Lung Disease (INCREASE Study).** Pharmaceutical Sponsor: United Therapeutics Corporation. Site Investigator: **Hernando Garcia, MD.**
- **An Open-Label Extension study of Inhaled Treprostinil in Subjects with Pulmonary Hypertension due to Parenchymal Lung Disease.** Pharmaceutical Sponsor: United Therapeutics Corporation. Site Investigator: **Hernando Garcia, MD.**
- **A Phase 3, Randomized, Placebo-controlled, Double-blind, Adaptive Study to Evaluate the Safety and Efficacy of Inhaled Treprostinil in Patients with Pulmonary Hypertension due to Chronic Obstructive Pulmonary Disease (PH-COPD) – (SOUTHPAW Study).** Pharmaceutical Sponsor: United Therapeutics Corporation. Site Investigator: **Haider Alkhateeb, MD/; Alejandro Marmol-Velez, MD.** Site-Sub-Investigator: Hernando Garcia, MD.
- **Phase 2 Multicenter, Double-Blind, Placebo Controlled, Efficacy, Safety, and Pharmacokinetic Study of 2 Doses of CXA-10 on Stable Background Therapy in Subjects**



**with Pulmonary Arterial Hypertension (PAH) (PRIME<sub>x</sub> Study).** Pharmaceutical Sponsor: Complexa Inc. Site Investigator: **Hernando Garcia, MD.**

- **An Open-Label Extension study of Inhaled Treprostinil in Subjects with Pulmonary Hypertension due to Parenchymal Lung Disease.** Pharmaceutical Sponsor: Complexa Inc. Site Investigator: **Hernando Garcia, MD.**
- **A Phase 3, Randomized, Placebo-controlled, Double-blind, Adaptive Study to Evaluate the Safety and Efficacy of Inhaled Treprostinil in Patients with Pulmonary Hypertension due to Chronic Obstructive Pulmonary Disease (PH-COPD) (PERFECT Study).** Pharmaceutical Sponsor: Lung Biotechnology PBC/ United Therapeutics Corporation. Site Investigator: **Hernando Garcia, MD.**
- **A Multicenter, Randomized, Double- Controlled Study To Assess The Efficacy Of Tradipitant In Relieving Symptoms Of Blind, Placebo Gastroparesis.** Pharmaceutical Sponsor: Vanda Pharmaceuticals, Inc. Site Investigator: **Richard McCallum, MD.** Site Sub-Investigator: Irene Sarosiek, MD.
- **A Multicenter, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Phase 2 Study to Assess the Efficacy, Safety, and Tolerability of Velusetrag for the Treatment of Diabetic or Idiopathic Gastroparesis (DIGEST Study).** Pharmaceutical Sponsor: Theravance Biopharma R&D, Inc. Site Investigator: **Richard McCallum, MD.** Site Sub-Investigator: Irene Sarosiek, MD.
- **A 12-week, Randomized, Double-blind, Placebo-controlled, Phase 3 Study to Evaluate the Safety and Efficacy of Relamorelin in Patients with Diabetic Gastroparesis.** Pharmaceutical Sponsor: Allergan Sales, LLC. Site Investigator: **Richard McCallum, MD.** Site Sub-Investigator: Irene Sarosiek, MD.

- **A 46-week, Double-blind, Placebo-controlled, Phase 3 Study with a 6-week Randomized-withdrawal Period to Evaluate the Safety and Efficacy of Relamorelin in Patients with Diabetic Gastroparesis.** Pharmaceutical Sponsor: Allergan Sales, LLC. Site Investigator: **Richard McCallum, MD.** Site Sub-Investigator: Irene Sarosiek, MD.
  
- **A 52-week, Randomized, Double-blind, Placebo-controlled, Phase 3 Study to Evaluate the Safety and Efficacy of Relamorelin in Patients with Diabetic Gastroparesis.** Pharmaceutical Sponsor: Allergan Sales, LLC. Site Investigator: **Richard McCallum, MD.** Site Sub-Investigator: Irene Sarosiek, MD.
  
- **A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Phase 2b Study to Evaluate the Efficacy and Safety of Twice-Daily Oral Administration of a Peripherally Acting Dopamine Receptor D2/D3 Antagonist, TAK-906 for the Treatment of Adult Subjects With Symptomatic Idiopathic or Diabetic Gastroparesis.** Pharmaceutical Sponsor: Millennium Pharmaceuticals, Inc/Takeda Pharmaceutical Company Limited. Site Investigator: **Richard McCallum, MD.** Site Sub-Investigator: Irene Sarosiek, MD.
  
- **A Randomized, Controlled Double-blind Study Comparing the Efficacy and Safety of Orelvo (voclosporin) (23.7 mg Twice Daily) with Placebo in Achieving Renal Response in Subjects with Active Lupus Nephritis (AURORA 01 Study).** Pharmaceutical Sponsor: Aurinia Pharmaceuticals Inc. Site Investigator: **Fernanda Payan-Schober, MD.** Site Sub-Investigator: Adeel Ahmad, MD.
  
- **A Randomized, Controlled, Double-blind, Continuation Study Comparing the Long-term Safety and Efficacy of Orelvo (voclosporin) (23.7 mg Twice Daily) with Placebo in Subjects with Lupus Nephritis (AURORA 02 Study).** Pharmaceutical Sponsor: Aurinia Pharmaceuticals Inc. Site Investigator: **Fernanda Payan-Schober, MD.** Site Sub-Investigator: Adeel Ahmad, MD.

- **Phase IIa Trial Evaluating the Safety of Intratumoral Injection of NanoPac in Subjects with Locally Advanced Pancreatic Adenocarcinoma.** Pharmaceutical Sponsor: US Biotest, Inc. Site Investigator: **Antonio Mendoza Ladd, MD**. Site Sub-Investigator: Sumit Gaur, MD.
- **A Trial Evaluating Escalating Doses and the Safety of Intracystic Injection of NanoPac® in Subjects with Mucinous Cystic Pancreatic Neoplasms.** Pharmaceutical Sponsor: US Biotest, Inc. Site Investigator: **Antonio Mendoza Ladd, MD**. Site Sub-Investigator: Sumit Gaur, MD.
- **A Phase 1, Single Dose PK And Safety Study With Ni-03 Followed By A Phase 2, Randomized, Double-Blind, Parallel-Group Dose-Ranging Study To Evaluate The Safety And Efficacy Of Ni-03 Compared To Placebo In Subjects With Chronic Pancreatitis.** Pharmaceutical Sponsor: Stason Pharmaceuticals, Inc. Site Investigator: **Antonio Mendoza Ladd, MD**. Site Sub-Investigator: Marc Zuckerman, MD.
- **A Phase 3b, Randomized, Double-blind, Placebo-controlled, Parallel-group Trial of Linaclotide 290 µg Administered Orally for 12 Weeks Followed by a 4-week Randomized Withdrawal Period in Patients with Irritable Bowel Syndrome with Constipation.** Pharmaceutical Sponsor: Ironwood Pharmaceuticals. Site Investigator: **Marc Zuckerman, MD**. Site Sub-Investigator: Antonio Mendoza Ladd, MD
- **A Phase 3, Randomized, Double-blind, Placebo-controlled, Parallel-group, Multicenter Trial of Oral IW-3718 Administered to Patients with Gastroesophageal Reflux Disease while receiving Proton Pump Inhibitors.** Pharmaceutical Sponsor: Ironwood Pharmaceuticals. Site Investigator: **Marc Zuckerman, MD**. Site Sub-Investigator: Antonio Mendoza Ladd, MD.
- **A Phase 2, Randomized, Double-blind, Placebo-controlled, Parallel-group, Dose-range-finding Study of MD-7246 Administered Orally for 12 Weeks to Treat Abdominal Pain in Patients with Diarrhea-predominant Irritable Bowel Syndrome.** Pharmaceutical Sponsor: Ironwood Pharmaceuticals. Site Investigator: **Marc Zuckerman, MD** Site Sub-Investigator: Antonio Mendoza Ladd, MD.