

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 2017

1 September 2016 – 31 August 2017

Prepared by: Sean M. Connery & Karina Espino

Dear Friends—

I am very pleased to bring to you the annual Internal Medicine departmental research productivity report for FY17. The Department had another banner year with **107** peer reviewed publications, several textbooks chapters and number of regional and national presentations. 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 the scholarly productivity of the house staff has increased substantially this year 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 significantly larger and more stylized than the others.

Debabrata Mukherjee, MD, MS
Chair, Department of Internal Medicine

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PubMed Publications TTUHSC El Paso Dept of Internal Medicine
2016-2017*

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) Abdelfatah MM, Elhanafi S, **Zuckerman MJ**, Othman MO. **Correlation between adenoma detection rate and novel quality indicators for screening colonoscopy. A proposal for quality measures tool kit.** Scand J Gastroenterol. 2017 Jun 23;1-10. PMID: [28643529](#)
- 2) **Agrawal H**, Martinez A, Volkmann ER, Melamed O, Wali S. **Initial Experience of a Primary Urgent Care Clinic Curriculum and Subspecialty Lectureship Series Implementation in a Los Angeles County Hospital.** South Med J. 2017 May;110(5):325-329. PMID: [28464172](#)
- 3) Allen KB, Yuh DD, Schwartz SB, **Lange RA**, Hopkins R, Bauer K, Marders JA, Delgado Donayre J, Milligan N, Wentz C. **Nontuberculous Mycobacterium Infections Associated With Heater-Cooler Devices.** Ann Thorac Surg. 2017 Oct;104(4):1237-1242. PMID: [28821331](#)
- 4) Arrouk R, Karpinski A, Lavenbarg T, Belmont J, **McCallum RW**, Hyman P. **Water Load Test in Children with Chronic Abdominal Pain or Obesity Compared with Nonobese Controls.** South Med J. 2017 Mar;110(3):168-171. PMID: [28257540](#)
- 5) ASGE Membership and Diversity Committee, Day LW, Gonzalez S, **Ladd AM**, et al. **Diversity in gastroenterology in the United States: Where are we now? Where should we go?** Gastrointest Endosc. 2016 Apr;83(4):679-83. PMID: [26810008](#)
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- 7) Brown LC, Jobson MA, **Payan Schober F**, Chang EH, Falk RJ, Nachman PH, Pendergraft WF. **The Evolving Role of Rituximab in Adult Minimal Change Glomerulopathy.** Am J Nephrol. 2017;45(4):365-372. PMID: [28315862](#)
- 8) Camilleri M, **McCallum RW**, Tack J, Spence SC, Gottesdiener K, Fiedorek FT. **Efficacy and Safety of Relamorelin in Diabetics with Symptoms of Gastroparesis: A Randomized, Placebo-Controlled Study.** Gastroenterology. 2017 Jul 28. pii: S0016-5085(17)35966-8. PMID: [28760384](#)

- 9) Chatterjee S, Weinberg I, Yeh RW, Chakraborty A, Sardar P, Weinberg MD, Kabrhel C, Barnes GD, **Mukherjee D**, et al. **Risk factors for intracranial haemorrhage in patients with pulmonary embolism treated with thrombolytic therapy Development of the PE-CH Score.** Thromb Haemost. 117(2):246-251, PubMed PMID: [27882375](#)
- 10) Chatterjee S, Kundu A, **Mukherjee D**, Sardar P, Mehran R, Bashir R, Giri J, Abbott JD. **Risk of contrast-induced acute kidney injury in ST-elevation myocardial infarction patients undergoing multi-vessel intervention-meta-analysis of randomized trials and risk prediction modeling study using observational data.** Catheter Cardiovasc Interv. 90(2):205-212. PubMed PMID: [28112470](#)
- 11) Chatterjee S, Yeh RW, Sardar P, Ul Hassan Virk H, **Mukherjee D**, et al. **Is multivessel intervention in ST-elevation myocardial infarction associated with early harm?** Insights from observational data. Catheter Cardiovasc Interv. 2016 Nov;88(5):697-707. PMID: [27341605](#)
- 12) Davis BR, **Sarosiek I**, Bashashati M, Alvarado B, **McCallum RW**. **The Long-Term Efficacy and Safety of Pyloroplasty Combined with Gastric Electrical Stimulation Therapy in Gastroparesis.** J Gastrointest Surg. 2017 Feb;21(2):222-227. PMID: [27896652](#)
- 13) Elhanafi S, Chhana R, Mallawaarachchi I, Lou W, Rangel G, Fang H, Patel R, Dwivedi AK, **Zuckerman MJ**, Othman MO. **Effects of Starting a Gastroenterology Fellowship Training Program on Quality Measures of Colonoscopy.** South Med J. 2017 Mar;110(3):200-206. PMID: [28257545](#)
- 14) **Farrag SE**, Dwivedi AK, Otoukesh S, Badri NJ, Sanchez LA, **Nahleh ZA**. **Prevalence of Low Vitamin D in Patients with Breast Cancer in a Predominantly Hispanic Population at the American-Mexican Border.** Nutr Cancer. 2017 Jul 18:1-6. PMID: [28718665](#)
- 15) **Figueroa-Casas JB**, Montoya R. **Difference in inspiratory flow between volume and pressure control ventilation in patients with flow dyssynchrony.** J Crit Care. 2017 Aug 5;42:264-267. PMID: [28802791](#)
- 16) **Figueroa-Casas JB**, Montoya R. **Effect of Tidal Volume Size and Its Delivery Mode on Patient-Ventilator Dyssynchrony.** Ann Am Thorac Soc. 2016 Dec;13(12):2207-2214. PMID: [27598383](#)
- 17) Grover M, Bernard CE, Pasricha PJ, Parkman HP, Gibbons SJ, Tonascia J, Koch KL, **McCallum RW**, **Sarosiek I**, et al; NIDDK Gastroparesis Clinical Research Consortium (GpCRC). **Diabetic and idiopathic gastroparesis is associated with loss of CD206-positive macrophages in the gastric antrum.** Neurogastroenterol Motil. 2017 Jun;29(6). PMID: [28066953](#)
- 18) Garg A, Sharma A, Krishnamoorthy P, Garg J, Virmani D, Sharma T, Stefanini G, Kostis JB, **Mukherjee D**, Sikorskaya E. **Role of Niacin in Current Clinical Practice: A Systematic Review.** Am J Med. 2017 Feb;130(2):173-187. PMID: [27793642](#)

- 19) Hasler WL, May KP, Wilson LA, Van Natta M, Parkman HP, Pasricha PJ, Koch KL, Abell TL, **McCallum RW**, Nguyen LA, Snape WJ, **Sarosiek I**, et al.; NIDDK Gastroparesis Clinical Research Consortium (GpCRC). **Relating gastric scintigraphy and symptoms to motility capsule transit and pressure findings in suspected gastroparesis.** Neurogastroenterol Motil. 2017 Sep 5. PMID: [28872760](#)
- 20) Jia Y, Bustamante M, Moraveji S, **McCallum RW**. **Pneumatic Dilation of the Lower Esophageal Sphincter Can Now Be Successfully Performed Without Morbidity.** Am J Med Sci. 2016 Nov;352(5):443-447. PMID: [27865290](#)
- 21) Joshi A, Punke EB, Sedano M, Beauchamp B, Patel R, Hossenlopp C, **Alozie OK**, Gupta J, **Mukherjee D**, Garg H. **CCR5 promoter activity correlates with HIV disease progression by regulating CCR5 cell surface expression and CD4 T cell apoptosis.** Sci Rep. 2017 Mar 22;7(1):232. PMID: [28331180](#)
- 22) Ladia V, Panchal HB, O'Neil TJ, Sitwala P, Bhatheja S, Patel R, Ramu V, **Mukherjee D**, Mahmud E, Paul TK. **Incidence of Renal Failure Requiring Hemodialysis Following Transcatheter Aortic Valve Replacement.** Am J Med Sci. 2016 Sep;352(3):306-13. PMID: [27650237](#)
- 23) Levine GN, Bates ER, Bittl JA, Brindis RG, Fihn SD, Fleisher LA, Granger CB, **Lange RA**, Mack MJ, Mauri L, Mehran R, **Mukherjee D**, et al. **2016 ACC/AHA guideline focused update on duration of dual antiplatelet therapy in patients with coronary artery disease: A report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines.** J Thorac Cardiovasc Surg. 152(5):1243-1275. PubMed PMID: [27751237](#)
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Patients Undergoing Noncardiac Surgery. *Circulation.* 2016 Sep 6;134(10):e123-55. PMID: [27026020](#)

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- 28) **Mendoza Ladd A**, Jia Y, Yu C, Elhanafi S, Dwivedi A, Liu J, Song G, Hall M, **Zuckerman MJ.** **Demographic and Clinical Characteristics of a Predominantly Hispanic Population with Inflammatory Bowel Disease on the US-Mexico Border.** *South Med J.* 2016 Dec;109(12):792-797. PMID: [27911976](#)
- 29) Montoya A, Amaya CN, Belmont A, Diab N, Trevino R, Villanueva G, Rains S, Sanchez LA, Badri N, Otoukesh S, Khammanivong A, Liss D, Baca ST, Aguilera RJ, Dickerson EB, Torabi A, Dwivedi AK, **Abbas A**, Chambers K, Bryan BA, **Nahleh Z.** **Use of non-selective β -blockers is associated with decreased tumor proliferative indices in early stage breast cancer.** *Oncotarget.* 2017 Jan 24;8(4):6446-6460. PMID: [28031536](#)
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- 31) **Nahleh ZA**, Barlow WE, Hayes DF, Schott AF, Gralow JR, Sikov WM, et al. **SWOG S0800 (NCI CDR0000636131): addition of bevacizumab to neoadjuvant nab-paclitaxel with dose-dense doxorubicin and cyclophosphamide improves pathologic complete response (pCR) rates in inflammatory or locally advanced breast cancer.** *Breast Cancer Res Treat.* 2016 Aug;158(3):485-95. PMID: [27393622](#)
- 32) Nairooz R, Valgimigli M, Rochlani Y, Pothineni NV, Raina S, Sardar P, **Mukherjee D**, Naidu SS, Shavelle DM. **Meta-analysis of clopidogrel pretreatment in acute coronary syndrome patients undergoing invasive strategy.** *Int J Cardiol.* 229:82-89, PubMed PMID: [27887802](#)
- 33) Othman MO, Zhang D, Elhanafi S, Eloliby M, Davis B, Guererro R, Alvarado L, Sanchez L, Dwivedi A, **Zuckerman MJ.** **Cap-Assisted Colonoscopy Increases Detection of Advanced Adenomas and Polyps.** *Am J Med Sci.* 2017 Apr;353(4):367-373. PMID: [28317624](#)

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- 36) **Payan Schober F**, Jobson MA, Poulton CJ, Singh HK, Nickleit V, et al. **Clinical Features and Outcomes of a Racially Diverse Population with Fibrillary Glomerulonephritis.** *Am J Nephrol.* 2017;45(3):248-256. PMID: [28161700](#)
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- 39) Romero R, Campbell L, Song H, **Zuckerman MJ, Alozie O.** **Effects of Health Insurance Among Patients on Hepatitis C Treatment Along the Texas-Mexico Border.** *Gastroenterol Nurs.* 2016 Jul-Aug;39(4):310-6. PMID: [27467060](#)
- 40) Saad M, Mahmoud AN, Elgendy IY, Abuzaid A, Barakat AF, Elgendy AY, Al-Ani M, Mentias A, Nairooz R, Bavry AA, **Mukherjee D.** **Cardiovascular outcomes with sodium-glucose cotransporter-2 inhibitors in patients with type II diabetes mellitus: A meta-analysis of placebo-controlled randomized trials.** *Int J Cardiol.* 228:352-358. PubMed PMID: [27866027](#)
- 41) Sardar P, Chatterjee S, Kundu A, Samady H, Owan T, Giri J, Nairooz R, Selzman CH, Heusch G, Gersh BJ, Abbott JD, **Mukherjee D**, Fang JC. **Remote ischemic preconditioning in patients undergoing cardiovascular surgery: Evidence from a meta-analysis of randomized controlled trials.** *Int J Cardiol.* 2016 Oct 15;221:34-41. PubMed PMID: [27400294](#)
- 42) Sardar P, Kundu A, Chatterjee S, Nohria A, Nairooz R, Bangalore S, **Mukherjee D**, et al.. **Long-term cardiovascular mortality after radiotherapy for breast cancer: A systematic review and meta-analysis.** *Clin Cardiol.* 2017 Feb;40(2):73-81. PMID: [28244595](#)

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- 44) Sardar P, Giri J, Elmariah S, Chatterjee S, Kolte D, Kundu A, Nairooz R, Aronow WS, Owan T, **Mukherjee D**, et al. **Meta-Analysis of Drug-Eluting Stents versus Coronary Artery Bypass Grafting in Unprotected Left Main Coronary Narrowing**. Am J Cardiol. 119(11):1746-1752. PubMed PMID: [28400029](#)
- 45) Sardar P, Kundu A, Bischoff M, Chatterjee S, Owan T, Nairooz R, Giri J, Halkos ME, Liberman H, Douglas JS, **Mukherjee D**. **Hybrid coronary revascularization versus coronary artery bypass grafting in patients with multivessel coronary artery disease: A meta-analysis**. Catheter Cardiovasc Interv. 2017 May 4 PubMed PMID: [28471093](#)
- 46) Sardar P, Kundu A, Chatterjee S, Nohria A, Nairooz R, Bangalore S, **Mukherjee D**, et al.. **Long-term cardiovascular mortality after radiotherapy for breast cancer: A systematic review and meta-analysis**. Clin Cardiol. 2017 40(2):73-81. PubMed PMID: [28244595](#)
- 47) **Sarosiek I**, Bashashati M, Alvarez A, Hall M, Shankar N, Gomez Y, **McCallum RW**, **Sarosiek J**. **Lubiprostone Accelerates Intestinal Transit and Alleviates Small Intestinal Bacterial Overgrowth in Patients With Chronic Constipation**. Am J Med Sci. 2016 Sep;352(3):231-8. PMID: [27650225](#)
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- 50) Sharma A, Lavie CJ, Sharma SK, Garg A, Vallakati A, **Mukherjee D**, Marmur JD. **Duration of Dual Antiplatelet Therapy After Drug-Eluting Stent Implantation in Patients With and Without Acute Coronary Syndrome: A Systematic Review of Randomized Controlled Trials**. Mayo Clin Proc. 2016 Aug;91(8):1084-93. PMID: [27492914](#)
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- 52) Sumayin Ngamdu K, El Mallah W, Dwivedi A, Mohsin R, Elhanafi S, **Jia Y**, Alvarado LA, **Mukherjee D**, **Zuckerman MJ**. **One-Year Survival is Not Affected by Gastrointestinal Bleeding After Percutaneous Coronary Interventions**. Am J Med Sci. 2017 Apr;353(4):381-386. PMID: [28317626](#)

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- 54) **Uga A**, Kulkarni S, Heeramun V, Bottum K. **Evaluation of a Model of Integrated Care for Patients With Chronic Medical and Psychiatric Illness**. *Psychosomatics*. 2017 Jul - Aug;58(4):437-440. PMID: [28427766](#)
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REVIEW - META ANALYSIS

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- 2) Abolbashari M, Macaulay TE, Whayne TF, **Mukherjee D**, Saha S. **Polypharmacy in Cardiovascular Medicine: Problems and Promises!** *Cardiovasc Hematol Agents Med Chem*. 2017 May 28. PubMed PMID: [28552061](#)
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- 7) Brock C, **McCallum RW**, Gyawali CP, Farmer AD, Frøkjaer JB, McMahon BP, Drewes AM. **Neurophysiology and new techniques to assess esophageal sensory function: an update.** Ann N Y Acad Sci. 2016 Sep;1380(1):78-90. PMID: [27598530](#)
- 8) Gosavi S, Tyroch AH, **Mukherjee D**. **Cardiac Trauma.** Angiology. 2016 Nov;67(10):896-901. PMID: [26802100](#)
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- 12) **Kar S**. **Translunar cardiac catheterization and percutaneous coronary intervention: techniques, transradial comparisons, anatomical considerations, and comprehensive literature review.** Catheter Cardiovasc Interv. 2017 Aug 2. PMID: [28766859](#)
- 13) **Kar S**, Weibel RR. **Diagnosis and treatment of spontaneous coronary artery pseudoaneurysm: Rare anomaly with potentially significant clinical implications.** Catheter Cardiovasc Interv. 2017 Oct 1;90(4):589-597. PMID: [28258964](#)
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RESIDENT & FELLOW RESEARCH (PGY 1-6)

Residents/Fellows (PGY 1-6), Faculty Mentor

JOURNAL ARTICLES, ORIGINAL INVESTIGATIONS

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Letters to the Editor/Editorial

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2. **Bashashati M**, **Sarosiek I**, Siddiqui T, **McCallum RW**. **Adverse Effects of Domperidone: Prolonged QuesT for Knowledge?** Dig Dis Sci. 2016 Dec;61(12):3384-3386. PMID: [27714509](#)
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Abstracts

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- 2) **Abolbashari M**, **Kar S**, **Gosavi S**, **Said S**, **Ibrahim A**, **Agrawal A**. **Double right coronary artery engendering inadequate blood supply to the inferior left ventricular wall.** JACC. 2017 March; 69 (11_S) 2275.
- 3) **Avalos DJ**, Chishti I, Berry A, Sussman DA, Castro F, **Zuckerman MJ**. **Optimizing the quality of bowel preparation in the difficult to prep population: A systematic review (abstr).** Am J Gastroenterol 2016; 111 (Suppl 1): S59.
- 4) **Avalos DJ**, Damas OM, **Zuckerman M**, **Paez V**, **Michael M**, **Bashashati M**, **Mendoza-Ladd A**. **Comparison of Inflammatory Bowel Disease Subtypes Among Hispanics, Non-Hispanic Whites and African Americans: a Systematic Review and Meta-Analysis,** In Gastroenterology, Volume 152, Issue 5, Supplement 1, 2017, Pages S974-S975.

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- 26) Sarosiek I, Bashashati M, Biswas S, Shankar N, Gomez Y, Bright T, McCallum RW, Sarosiek J, Terreros D. (2017). **Significant alterations within the plasma cytokine profile in gastroparesis: A case-control study.** *Gastroenterol.* 152(5 Suppl 1), S520.
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- 29) Shankar N, Bashashati M, Silvina T, McCallum RW, Sarosiek I. (2017). **Frequent flyers' in emergency departments: Why should we understand and care about cyclic vomiting syndrome patients?** *Gastroenterol.* 152(5 Suppl 1), S742.
- 30) Snodgrass P, Sandoval H, Calhoun V, Ramos-Duran L, Song G, Sun Y, Alvarado B, Bashashati M, Sarosiek I, McCallum RW. (2017). **Central Nervous System (CNS) mechanisms of nausea in gastroparesis: An fMRI based case-control study.** *Gastroenterol.* 152(5 Suppl 1), S89.
- 31) Song G, Sun Y, Quezada A, Bashashati M, Sarosiek I, McCallum RW. (2016). **Efficacy of needleless transcutaneous electroacupuncture in synchronization with breathing for symptomatic idiopathic gastroparesis: a blinded and controlled acute treatment trial.** *Gastroenterol.* 150(Suppl 1), S724.

OPEN, ACTIVE, ONGOING RESEARCH

Investigator Initiated Research Studies GRANT FUNDED FY17

➤ **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**. 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 – Current	\$30,543
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	Total	\$81,812

Department of Internal Medicine Pilot Small Projects Funded - Cycle 6, 7, 8, 9

- **Evaluation of the vagus nerve function in adult patients with cyclic vomiting syndrome using plasma pancreatic polypeptide (PP) response to the sham meal test** - Richard W. McCallum, MD
- **Endocannabinoid gene polymorphisms as a potential predictor of Barrett's esophagus** - Irene Sarosiek, MD
- **Adherence of Hispanic/Latina Breast Cancer - Patients to Adjuvant Aromatase Inhibitors - (AIs)** - Alexander Philipovskiy, MD, PhD
- **Developing a new model of gastric motor and electrical function and understanding the underlying mechanisms of gastric neuromodulation**. - Richard W. McCallum, MD
- **Outcomes of Ultrasound Guided Ulnar versus Radial Cardiac Catheterization** - Subrata Kar, MD
- **Clinical and pathological features of Epstein-Barr virus associated gastric carcinoma at the US-Mexico border: a single institution study** - Sumit Gaur, MD