

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 2015

1 September 2014 – 31 August 2015

Prepared by: Sean M. Connery and Andrea Rios

Dear Friends—

I am very pleased to bring to you the annual Internal Medicine departmental research productivity report for FY15. The Department had another banner year with 73 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 a resource to them.

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 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, MD, MS
Chair, Department of Internal Medicine

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

PubMed Peer Review Publications

JOURNAL ARTICLES

1. Alvarez A, Garcia CJ, Jia Y, Boman D, Zuckerman MJ. **Streptococcus bovis bacteremia: association with gastrointestinal and liver disease in a predominantly Hispanic population.** South Med J. 2015 Jul;108(7):425-9.
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10. 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.* 2015 Aug;49(7):589-93.
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12. Feldman T, Aldea GS, Bacha EA, Bavaria J, Morton Bolman R 3rd, Cameron DE, Dean LS, Hijazi ZM, Horlick E, Mack MJ, Craig Miller D, Moon MR, **Mukherjee D**, et al. **SCAI/AATS/ACC/STS operator & institutional requirements for transcatheter valve repair and replacement, part II- mitral valve.** *J Am Coll Cardiol.* 2014 Nov;64(14):1515-26.
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 24. **Nahleh Z**, Otoukesh S, Dwivedi AK, Mallawaarachchi I, Sanchez, Salvador Saldivar J, Castaneda K, **Heydarian R**. **Clinical and pathological characteristics of Hispanic BRCA-associated breast cancers in the American-Mexican border city of El Paso, TX.** Am J Clin Cancer Res. 2015;5:1 (466-471).
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36. Sardar P, Udell JA, Chatterjee S, Bansilal S, **Mukherjee D**, Farkouh ME. **Effect of intensive versus 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 Heart Assoc. 2015 May 5;4(5).
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2. Bashashati M, **McCallum RW**. **Motility: is 'ICC-opathy' present in gastroparesis-like syndrome?** Nat Rev Gastroenterol Hepatol. 2015 Jul;12(7):375-6.
3. **McCallum RW**, Bashashati M. **Cannabis in gastrointestinal disorders**. Pract Gastroenterol. 2014 Dec;38(12):36-46.

4. Bustamante-Bernal M, Wani P, **McCallum RW**. **Domperidone: everything a gastroenterologist needs to know**. Pract Gastroenterol. 2015 June;39(6):16-39.
5. Cooper CJ, **McCallum RW**. **Cyclic vomiting syndrome: diagnostic criteria and insights into long term treatment outcomes**. Pract Gastroenterol. 2015 Jan;39(1):30-48.
6. Gosavi S, Channa R, **Mukherjee D**. **Systemic hypertension in patients with aortic stenosis: clinical implications and principles of pharmacological therapy**. Cardiovasc Hematol Agents Med Chem. 2015;13(1):50-3.
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19. Said S, **Hernandez GT. Environmental exposures, socioeconomics, disparities, and the kidneys.** *Adv Chronic Kidney Dis*. 2015 Jan;22(1):39-45.
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23. Sardar P, Udell JA, Chatterjee S, Bansilal S, **Mukherjee D**, Farkouh ME. **Effect of intensive versus 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 Heart Assoc*. 2015 May 5;4(5).
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PUBLISHED ABSTRACTS

- 1) **Abedin Z**, Diez-Roux A, Kershaw K, Panjwani A, Allen N. **Does social support moderate the association of socioeconomic status and sub clinical atherosclerosis in the multi ethnic study of atherosclerosis (MESA)?** *J Gen Intern Med*. 2015 April;30(2 Suppl):S143-S144.
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- 7) Chatterjee S, Sardar P, **Mukherjee D,** Kumbhani D, Giri J. **Mortality, expense and length of stay with transcatheter versus surgical aortic valve replacement in the first year after approval in the US: an analysis of the national inpatient sample database.** J Am Coll Cardiol. 2015 Mar 17;65(10 Suppl):A1706.
- 8) Chatterjee S, Sardar P, Parikh S, Vaidya A, Chakraborty A, **Mukherjee D,** Giri J. **Mortality, expense and length of stay with local versus systemic thrombolysis in pulmonary embolism: an analysis of five years of the nationwide inpatient sample database.** J Am Coll Cardiol; 65(10 Suppl):A2129.
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- 10) Cooper C, Rodriguez E, Otoukesh S, Moraveji S, Eichler E, DeMaio K, Pande C, **Sarosiek I,** David B, **McCallum R.** **A ten-year evaluation of jejunostomy tube indications, complications, and clinical outcomes for nutritional support at a tertiary university hospital.** Am J Gastroenterol. 2014 Oct;109(Suppl s2):S118.
- 11) Correa AA, Chatterjee S, Sardar P, **Mukherjee D.** **Risk of mortality with type 1 versus type 2 myocardial infarctions: can demand ischemia be ignored? Insights from a meta-analysis.** J Am Coll Cardiol. 2015 Mar 17;65(10 Suppl):A62.
- 12) Diaz J, Friedman M, Makiyil J., **Sarosiek I, McCallum RW.** **Dynamic antral scintigraphy identifies patterns of gastric contractility in patients with upper GI motility disorders: comparison to conventional gastric emptying scintigraphy data.** Gastroenterol. 2015 Apr;148(4 Suppl 1):S515-S516.

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CASE REPORTS

1. **Bizet J, Cooper C**, Zuckerman M, Torabi A, Mendoza-Ladd A. **A bleeding colonic ulcer from invasive *Aspergillus* infection in an immunocompromised patient: a case report**. *J Med Case Rep*. 2014; 8(407):1-6.

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BOOKS and BOOK CHAPTERS

- 1) [McCallum RW](#), [Sunny J](#). **Gastroparesis**. In: McNally PR, editor. GI/liver secrets plus, fifth edition: book chapter 12. 5th ed. Saunders; 2014 December. p. 87-94.
- 2) [Berg P](#), [McCallum RW](#). **Dumping syndrome**. In: Rao SSC, Parkman HP, McCallum RW, editors. Handbook of gastrointestinal motility and functional disorders: book chapter 10. 1st ed. Slack Inc.; 2015 May 15. p. 123-134.
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LETTER TO THE EDITOR and EDITORIALS

1. [Mukherjee D](#), [Azimova K](#). Reply from the author: diabetes mellitus and depression in Hispanic patients. Angiology. 2015 May;66(5):493.
2. [Rambod M](#), [Elhanafi S](#), [Mukherjee D](#). Response to: Brugada phenocopy: morphological classification and

Summary and Commentary on Important Research Findings

1. **Gosavi S.** Commentary and review of “Glycemic Control and Excess Mortality in Patients with Type 1 Diabetes Mellitus.” Cardiology Review Online | April 2015
2. **Popp Switzer MJ.** Fish Consumption and ACS: A Meta-Analysis Commentary and review of “ Fish consumption and acute coronary syndrome: a meta-analysis.” Cardiology Review Online | 30 March 2015.
3. **Mohsin R.** A Comparison of Fractional Flow Reserve by Coronary Angiography Vs. Atherosclerotic Plaque Characteristics by Coronary CTA. Commentary and review of “Atherosclerotic plaque characteristics by CT angiography identify coronary lesions that cause ischemia: a direct comparison to fractional flow reserve” Cardiology Review | Online 14 May 2015.
4. **Quevedo KK.** Efficacy of Beta-Blockers in Patients with Heart Failure Plus Atrial Fibrillation. Commentary and review of “Efficacy of beta-blockers in patients with heart failure plus atrial fibrillation: an individual-patient data meta-analysis.” Cardiology Review Online | 14 May 2015.

OPEN, ACTIVE, ONGOING RESEARCH

Investigator Initiated Research Studies

GRANT FUNDED FY15

➤ **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 4 – 09/01/2014 – 08/31/2015 - \$466,313

- *Gastroparesis Registry 2 (GpR 2): Continuation of the NIDDK Registry for the Characterization and Clinical Course of Gastroparesis Patients*
- *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

➤ **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

Paul L. Foster School of Medicine, TTUHSC El Paso, Office of the Assistant Vice President for Research, Seed Grant

- **Functional imaging of the brain in Gastroparetic patients with nausea and the response to transcutaneous electrical acupuncture** – *Richard McCallum, MD* \$15,400
- **Epidermal growth factor A61 G gene polymorphism as a potential predictor of esophageal adenocarcinoma in patients with reflux esophagitis: pilot study** – *Irene Sarosiek, MD* \$7,000
- **The Effects of Peritoneal versus Hemodialysis on Cardiovascular Events** – *W. El Mallab, MD* \$1,500
- **Effect of tidal volume size and delivery mode on patient-ventilator synchrony** – *Juan Figueroa-Casas, MD* \$2,222.41
- **A Single Arm Phase II Study of Oral Vitamin B 12 for The Treatment of Aromatase Inhibitors (AI)-Associated Musculoskeletal Symptoms in Women with Early Stage Breast Cancer** - *Rosalinda Heydarian, NP* - \$13,000
- **A Phase II "Window of Opportunity" neoadjuvant study of propranolol in breast cancer** - *Zeina Nahleh, MD* - \$21 ,000

Department of Internal Medicine Internal Seed Grant Funded - Cycle 6

- **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