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 2013
1 September 2012 – 31 August 2013

Prepared by:
Sean M. Connery
Dear Friends—

I am very pleased to bring to you the annual Internal Medicine departmental research productivity report for FY13. The Department had another banner year with 62 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!

Debabrata

Debabrata Mukherjee, MD, MS
Acting Chair
Department of Internal Medicine
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## Completed Research FY13

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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 Review Publications**

**Journal Articles**


32. Rude J, Azimova K, Dominguez C, **Sarosiek J**, Edlavitch S, **Mukherjee D.** Depression as a Predictor of Length of Stay in Patients Admitted to the Cardiovascular Intensive Care Unit at a University Medical Center. Angiology. 2013 Jul 2.[Epub ahead of print]


**Review Articles**


Abstracts


Abstracts (No Citation)/Presentations

Diaz JR, Bagherpour A, Saadi M, Cooper C, Sarosiek I, McCallum RW. Effect of Instituting 4-Hour Gastric Emptying Scintigraphy Protocol Compared to Prior Shorter Duration Scintigraphy for Suspected Gastric Motility Disorders. The Southeastern Chapter of SNMMMI April 2013

Said S, Cooper C, Alkhateeb H, Gosavi S, Abedin Z. Incidence of New Onset Atrial Fibrillation in Patients with Permanent Pacemakers and the Relation to the Pacing Mode. 6th APHRS & CardioRhythm 2013 (3-6 October 2013, Hong Kong)


Sarosiek I, Colombo J, Davis B, McCallum RW. Toward a More Scientifically Based Programming Approach for Gastric Electrical Stimulation in Gastroparesis Patients. 2013 International Gastrointestinal Electrophysiology Society Workshop-IEGGS; DDW 2013 Orlando, FL.


Ortiz AM, Patham B, Zuckerman M, Othman MO. Recurrence rate of colorectal polyps after endoscopic mucosal resection: a systematic review and meta-analysis. Presented (poster) at the annual meeting of the ASGE (Digestive Disease Week) in Orlando, May 18, 2013.

Ortiz AM, Patham B, Zuckerman M, Othman MO. Recurrence rate after endoscopic mucosal resection of duodenal polyps: a systematic review and meta-analysis. Presented (poster) at the annual meeting of the ASGE (Digestive Disease Week) in Orlando, May 18, 2013.

Jia Y, Ortiz AM, Zuckerman M, Othman MO. Risk of bacteremia after endoscopic banding ligation of esophageal varices: a systematic review. Presented (poster) at the annual meeting of the ASGE (Digestive Disease Week) in Orlando, May 19, 2013.


Sarosiek J. Role of Saliva and its Components in Esophageal Mucosal Defense-September 2012, OESO 11th World Organization for Specialized Studies on Diseases of the Esophagus-Como, Italy.

Sarosiek J. Barrier Function in Esophageal Squamous Epithelium-September 2012, OESO 11th World Organization for Specialized Studies on Diseases of the Esophagus-Como, Italy.

Sarosiek J. What is the Function and Role of Submucosal Mucus Glands under the Esophageal Squamous Epithelium?-September 2012, OESO 11th World Organization for Specialized Studies on Diseases of the Esophagus-Como, Italy.

Sarosiek J. What is the Role of Cox-1 and Cox-2 in Progression of non-dysplastic BE to adenocarcinoma?-September 2012, OESO 11th World Organization for Specialized Studies on Diseases of the Esophagus-Como, Italy.

Published Case Reports


**Book Chapters**


3) Lin Z, McCallum RW. Changes of Sympathovagal Balance Measured by Heart Rate Variability in Gastroparetic


Letter to the Editor – Commentary


Summary and Commentary on Important Research Findings

Gosavi S. Commentary and review of "Effect of Ramipril on Walking Times, QOL in Patients with PAD". Cardiology Review, April 2013.

Gosavi S. Commentary and review on Statins, exercise and exercise training. Cardiology Review, August 2013.

Gosavi S. Commentary and review of "How Should the Findings from the Mikus et al Study be Translated into Clinical". Cardiology Review, August 2013.


Medical Student, Resident, and Fellows Research Activity
(IM Resident/Fellow Bold, Faculty Sponsor / Mentor)
TTUHSC PLF SOM Medical Student

Journal Articles – Original Investigation


Journal Articles – Review Articles


Abstracts


Abstracts (No Citation)

Diaz JR, Bagherpour A, Saadi M, Cooper C, Sarosiek I, McCallum RW. Effect of Instituting 4-Hour Gastric Emptying Scintigraphy Protocol Compared to Prior Shorter Duration Scintigraphy for Suspected Gastric Motility Disorders. The Southeastern Chapter of SNMMI April 2013

Said S, Cooper C, Alkhateeb H, Gosavi S, Abedin Z. Incidence of New Onset Atrial Fibrillation in Patients with Permanent Pacemakers and the Relation to the Pacing Mode. 6th APHRS & CardioRhythm 2013 (3-6 October 2013, Hong Kong)


Published Case Reports


12. **Saadi M, Sarosiek I, McCallum RW.** Can Kennedy Disease be a Rare Cause of Achalasia? American Journal of Medical Sciences, 2013 (in press).


**Letter to the Editor – Commentary – Opinion Papers - Summary and Commentary on Important Research Findings**

OPEN, ACTIVE, ONGOING RESEARCH
Investigator Initiated Research Studies
GRANT FUNDED FY13

- **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 2 – 09/01/2012 – 08/31/2013 - $258,532
  
  - 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-Blinded, Placebo-Controlled Trial (APRON)

- **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

- **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
  
  Year 2 - 1 Dec 2012 – 30 Nov 2013 - $423,754


- **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 2/28/201. $19,750

Department of Internal Medicine Internal Seed Grant Funded

**Cycle 3**
- Metabolic Syndrome and Subclinical Atherosclerosis in Hispanics with HIV – Dr. Omosalewa Lalude
- Gene expression signatures associated with bone marrow fibrosis in CML – Dr. Sumit Gaur
- Intraluminal Endosonography for Examination of the Structural Changes of the Stomach in Gastroparetic Patients – Dr. Mohamed Othman

**Cycle 4**
- Evaluation of Serum Pro-inflammatory Cytokines in Hispanic Patients with Chronic Hepatitis C Infection and Type 2 Diabetes Mellitus – A Pilot Study – Dr. Ogechika Alozie
- Randomized Control Trial Comparing Prokinetics and Their Influence on Endoscopy Outcomes For Upper GI Bleed – Dr. Mohamed Othman
Investigator Initiated Research Studies

Unfunded

Aortic Dissection and Uncontrolled or Untreated Hypertension In Predominantly Hispanic Population: Prevalence and Outcomes. - Debabrata Mukherjee, MD.

Prevalence and predictors of Contrast-Induced Acute Kidney Injury among patients undergoing angiography at an University Medical Center at El Paso Texas, in a predominantly Hispanic population. - Debabrata Mukherjee, MD

Prevalence of metabolic syndrome among patients presenting with angiographically proven coronary artery disease at an University Medical Center at El Paso Texas, in a predominantly Hispanic population. - Debabrata Mukherjee, MD

Prevalence and Prognostic Implications of Anemia in Heart Failure. - Debabrata Mukherjee, MD

A Prospective Study of the Risk of Bacteremia in directed Cholangioscopic examination of the CBD. - Mohamed O Othman, MD

Infective endocarditis in a Southwestern American border Hospital -- 5 years (2006-2010) study. - Debabrata Mukherjee, MD

Survey of Dialysis Patients to Determine a Safety Score for Driving after a Dialysis Treatment - Pedro Antonio Blandon, MD

The utility of Cap Colonoscopy in increasing adenoma detection rate - Mohamed O Othman, MD

Correlation of the adenoma detection rate to polyp detection rate. A single center study. - Mohamed O Othman, MD

Randomized Control Trial Comparing Prokinetics and Their Influence on Endoscopy Outcomes for Upper GI Bleed. - Mohamed O Othman, MD

The cellularity yield of three different 22-gauge Endoscopic Ultrasound Fine needle aspiration needles - Mohamed O Othman, MD

The impact of introduction of new Endoscopic Ultrasound (EUS) service on the use of Endoscopic Retrograde Cholangiopancreatography and its clinical implications. - Mohamed O Othman, MD

Intraluminal Endosonography for Examination of the Structural Changes of the Stomach in Gastroparetic Patient. - Mohamed O Othman, MD

Evaluation of gastric polyps and its clinical correlations in Hispanic predominant population. A single center study. - Mohamed O Othman, MD

ERCP In The Elderly - Marc Zuckerman, MD

Initial Experience of Capsule Endoscopy at Thomason General Hospital – Marc Zuckerman, MD
Streptococcus bovis and gastrointestinal disease in a U.S. - Mexico border city. - Marc Zuckerman, MD

Measuring Gastroparesis Symptom Severity – Irene Sarosiek, MD

Food Intake and Eating Habits in Individuals with Gastroparesis – Irene Sarosiek, MD

Etiologies of Nausea and Vomiting in a Predominantly Hispanic Population of Patients Referred to TTUHSC GI Motility Clinic – Irene Sarosiek, MD

An Investigation of Cytokines as Potential Biomarkers for Gastroparesis and its Ethnic Differences in Diabetic Patients. - Irene Sarosiek, MD

Cyclic Vomiting Syndrome: An Analysis of a Commonly Misdiagnosed Entity - Richard McCallum, MD

Radionuclide Gastric Emptying Before And After Consensus Recommendations: A Comparative Study Eight-Year Experience At Texas Tech University HSC El Paso - Richard McCallum, MD

Enterra Therapy: Gastric Electrical Stimulation (GES) System Humanitarian Device Exemption - Richard McCallum, MD

Single Center IND to obtain access to Domperidone for GI disorders – Richard McCallum, MD

The prevalence and clinical implications of gastroparesis in El Paso County, Texas - Irene Sarosiek, MD

Search for Clinical presentation Related to Cannabinoid use in a Predominantly Hispanic Population of Patients, its Potential Practical Implications - Irene Sarosiek, MD

Retrospective Analysis of Candidemia: The Candida Score - Ogechika Karl Alozie, MD MPH

Metabolic Syndrome and Subclinical Atherosclerosis in Hispanics with HIV - Ogechika Karl Alozie, MD MPH

Chronic Hepatitis C: A Retrospective Assessment of HCV Demographics and Risk Factors in Patients Attending Clinic at TTUHSC - El Paso - Ogechika Karl Alozie, MD MPH

Hepatitis C Benchmarking/Registry Project - Ogechika Karl Alozie, MD MPH

A retrospective chart-review investigating the efficacy of hospital policies in preventing catheter-associated urinary tract infections. - Ogechika Karl Alozie, MD MPH

Stage and Characteristic of Patients with Newly Diagnosed Breast Cancer at TTUHSC Breast Cancer Clinic El Paso - Zeina Nahleh, MD

Launching a Breast Cancer Survivorship Program at TTUHSC-Paul Foster School of Medicine in El Paso - Zeina Nahleh, MD
Effect of chemotherapy on markers of metabolic syndrome in early breast cancer. – Sumit Gaur, MD

Clinical features and prognosis of CD20 negative diffuse large B cell lymphoma. – Sumit Gaur, MD

Clinical features and gene expression signatures associated with bone marrow fibrosis in chronic myeloid leukemia. – Sumit Gaur, MD

Comparison of usual care of older hospitalized patients to those cared for in an Acute Care for Elders (ACE) unit – Paul Casner, MD, PhD

The role of lead exposure in the progression of Chronic Kidney Disease (CKD) in patients in the El Paso region. The Paso del Norte Kidney Disease Study (PNKDS) Wave two. - German Hernandez, MD

Dialysate Base Concentration and Mortality in Maintenance Hemodialysis Patients. - German Hernandez, MD

Clinical Presentation and Outcomes among predominantly Hispanic patients with Lupus Nephritis. – German Hernandez, MD

Retrospective analysis of Incidence of New Onset of Atrial Fibrillation and its relation to the pacing mode in Patients with permanent Pacemakers. - Zainul Abedin, MD

The Role of electrolyte abnormalities in Failed Spontaneous Breathing trial (SBT) in Mechanically Ventilated Patients: A retrospective Cohort Study. - Juan Figueroa-Casas, MD

Inter-observer agreement for Spontaneous Breathing Trial qualitative variable. - Juan Figueroa-Casas, MD

PEEP titration in Acute Lung Injury - Juan Figueroa-Casas, MD

Prediction of Duration of Mechanical Ventilation- Juan Figueroa-Casas, MD

Retrospective Study: Evaluation of Diabetic Foot Exams in the Ambulatory Setting for Quality Systems Improvement – Tamis Bright, MD

Helicobacter pylori as a potential risk factor for colonic neoplasms in predominantly Hispanic population of patients. Jerzy Sarosiek, MD, PhD

Thromboembolism risk evaluation following Bioprosthetic Valve Replacement - Tariq Siddiqui, MD
Pharmaceutically Sponsored Clinical Research Studies
Open, Active Clinical Trials (As of August 2013)

- A Phase 2, Randomized, Double-blind, Placebo-controlled Study to Evaluate the Safety and Efficacy of RM-131 Administered to Patients with Diabetic Gastroparesis - Rhythm Pharmaceuticals, Inc.- Richard McCallum, MD

- A multi-center, intra-patient dose escalation phase II study to evaluate the preliminary efficacy, safety and pharmacokinetics of pasireotide (SOM230) subcutaneous (s.c.) followed by pasireotide LAR in patients with dumping syndrome - Novartis Pharmaceuticals - Richard McCallum, MD

- A Multicenter, Randomized, Double Blind, Placebo Controlled Study to Evaluate the Efficacy, Safety, and Tolerability of BIIB023 in Subjects with Lupus Nephritis- Biogen Idec – German Hernandez, MD

- A Multicenter, Randomized, Active-Control, Phase 3B Study to Evaluate the Cardiovascular Safety of Febuxostat and Allopurinol in Subjects with Gout and Cardiovascular Comorbidities - Takeda Global Research and Development Center, Inc. - Kanchan Pema, MD

- The Effect of Lubiprostone on Transit Times within the Alimentary Tract, Measured by Novel SmartPill Methodology in Patients with Chronic Constipation. - Takeda Global Research and Development Center, Inc - Irene Sarosiek, MD

- A randomized, double-blind, placebo-controlled, parallel group, multicenter study to evaluate cardiovascular outcomes during treatment with lixisenatide in type 2 diabetic patients after an Acute Coronary Syndrome Event Short Title: ELIXA (Evaluation of LIIXisenatide in Acute coronary syndrome)- Sanofi - Tamis Bright, MD

- A Randomized, Double-blind, Placebo-controlled, Phase 3 Study to Evaluate the Efficacy, Safety, and Tolerability of JNJ-27018966 in the Treatment of Patients With Diarrhea-Predominant Irritable Bowel Syndrome. – Furiex Pharmaceuticals.- Marc Zuckerman, MD

- A Phase III, Randomized, Multicenter, Double-Blind, Double Dummy, Parallel Group, Comparative Study to Determine the Efficacy, Safety, and Tolerability of Ceftazidime Avibactam (CAZ-AVI, formerly CAZ104) Versus Doripenem Followed by Appropriate Oral Therapy in the Treatment of Complicated Urinary Tract Infections, Including Acute Pyelonephritis, With a Gram Negative Pathogen in Hospitalized Adults - AstraZeneca - Ogechika Karl Alozie, MD MPH


- Strategies Using Darbepoetin alfa to Avoid Transfusions in Chronic Kidney Disease: START-CKD – Amgen Pharmaceuticals – Azikiwe Nwosu, MD

- Randomized, single-blind study to estimate the effect of patient education on reported bone pain in breast cancer patients receiving chemotherapy and pegfilgrastim. Amgen Pharmaceuticals – Zeina Nahleh, MD

- A phase III randomized, double blind, placebo controlled study of BKM120 with fulvestrant, in postmenopausal women with hormone receptor-positive HER2-negative AI treated, locally
advanced or metastatic breast cancer who progressed on or after mTOR inhibitor based treatment – Novartis Pharmaceuticals - Zeina Nahleh, MD

➢ A Randomized, Double-blind, Placebo-controlled Study to Evaluate the Long-term Safety and Efficacy of Darbopoetin Alfa Administered at 500 micro-grams Once-Every-3-Weeks in Anemic Subjects With Advanced Stage Non-small Cell Lung Cancer Receiving Multi-cycle Chemotherapy – Amgen- Zeina Nahleh, MD

➢ A Study To Assess Repeat Treatment Efficacy And Safety Of Rifaximin 550 Mg Tid In Subjects With Irritable Bowel Syndrome With Diarrhea (Ibs-D) – Salix Pharmaceuticals – Richard McCallum, MD

➢ A Phase III Randomized, Double Blind, Placebo-controlled, Multicenter, Parallel Group Study to Assess the Efficacy and Safety of Fixed-dose Combination RHB-104 in Subjects with Moderately to Severely Active Crohn’s Disease – RedHill Biopharma – Richard McCallum, MD

➢ A Randomized, Double-Blinded, Active-Controlled Study of CB-183,315 in Patients with Clostridium difficile Associated Diarrhea - Cubist Pharmaceuticals, Inc – Marc Zuckerman, MD

Oncology Clinical Trials Cooperative Group

➢ A Randomized Placebo-Controlled Trial of Omega-3-Fatty Acid for the Control of Aromatase Inhibitor-Induced Musculoskeletal Pain and Stiffness in Women with Early Stage Breast Cancer, Phase III – SWOG - (formerly the Southwest Oncology Group) – Zeina Nahleh, MD.

➢ A Phase III, Randomized Clinical Trial of Standard Adjuvant Endocrine Therapy +/- Chemotherapy in Patients with 1-3 Positive Nodes, Hormone Receptor-Positive and HER2-Negative Breast Cancer with Recurrence Score (RS) of 25 or Less. RxPONDER: A Clinical Trial Rx for Positive Node, Endocrine Responsive Breast Cancer - SWOG - (formerly the Southwest Oncology Group) – Zeina Nahleh, MD.

➢ A Randomized Placebo-Controlled Phase Iii Study Of Duloxetine For Treatment Of Aromatase Inhibitor (Ai)-Associated Musculoskeletal Symptoms In Women With Early Stage Breast Cancer - SWOG - (formerly the Southwest Oncology Group) – Zeina Nahleh, MD.

➢ A Randomized Placebo-Controlled Trial of Omega-3-Fatty Acid for the Control of Aromatase Inhibitor-Induced Musculoskeletal Pain and Stiffness in Women with Early Stage Breast Cancer, Phase III. - SWOG - (formerly the Southwest Oncology Group) – Zeina Nahleh, MD.

➢ BRCA1 and BRCA2 Mutations and Triple Negative Disease in Hispanic/Latino Breast Cancer Subjects – National Cancer Institute (NCI) -Zeina Nahleh, MD.
A GSK1349572 Open Label Protocol for HIV infected, Adult Patients with Integrase Resistance- Expanded Access Programme (EAP) for Patients with HIV – GlaxoSmithKline - Ogechika Alozie, MD MPH

A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Evaluation of the Efficacy and Safety of Once-Daily Administrations of TZP 102 for the Treatment of Symptoms Associated with Diabetic Gastroparesis - Tranzyme Pharmaceuticals – Richard McCallum, MD

A Phase 3b, Multicenter, Randomized, Single-blind, Parallel Group Trial of the Effects of Titrated Oral SAMSCA (Tolvaptan) 15, 30, or 60 mg QD Compared to Placebo Plus Fluid Restriction on Length of Hospital Stay and Symptoms in Subjects Hospitalized with Dilutional Hyponatremia.- Otsuka Pharmaceuticals - Azikiwe Nwosu, MD

A Phase 3, Randomized, Double-Blind Study to Evaluate the Safety and Efficacy of Elvitegravir/Cobicistat/Emtricitabine/ Tenofovir Alafenamide Versus Elvitegravir/Cobicistat/ Emtricitabine/Tenofovir Disoprolxil Fumarate in HIV-1 Positive, Antiretroviral Treatment-Naïve Adults - Gilead Sciences - Ogechika Karl Alozie, MD MPH

Therapies for Resistant Focal Segmental Glomerulosclerosis (FSGS) A Phase II Clinical Trial - NIH/NIDDK - German Hernandez, MD

A 12-Week, Randomized, Double-Blind, Placebo-Controlled Study of Asimadoline in Subjects With Diarrhea-Predominant Irritable Bowel Syndrome - Tioga Pharmaceuticals – Marc Zuckerman, M.D