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Productivity Report

MOLECULAR STRUCTURE OF NUCLEIC ACIDS

A Structure for Deoxyribose Nucleic Acid

WE wish to suggest a structure for the salt of deoxyribose nucleic acid (D.N.A.). This structure has novel features which are of considerable

A structure for nucleic acid has already been proposed by Pauling and Corey¹. They kindly made their manuscript available to us in advance of

TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER

at El Paso

Paul L. Foster School of Medicine

Department of Internal Medicine

have made the usual chemical riboso haders and insufficient for a rigorous test assumptions, namely, the FY 2010 structure. So far as we can tell, it is roughly chain consists of phosp Ft 4 2010 atible with the experimental data, but it must uster groups in high an decay.

1 September 2009 – 31 August 2010 the details of the results presented there when we

sugar being roughly prepared by:ns, Dr. R. E. Franklin and their co-workers at

Sean M. Connery, MS 30 September 2010



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Publications 2009-2010*

Faculty Member, Post-Doctoral Research Fellow, Resident

Books

<u>Mukherjee D</u>, Bates ER, Roffi M, Moliterno DJ, editors. Cardiac Catheterization, Coronary & Peripheral Angiography, and Interventional Procedures. London: Informa Health Care; 2010.

<u>Mukherjee D</u>, Bavry A, editors. Interventional Cardiology: Essential Clinician Guide. (Oxford Cardiology Library) New York, Oxford University Press;2010.

Peer Review Publications

Journal Articles

Abbas A, Szczepaniak LS, Tuncel M, McGavock JM, Adams-Huet B, Fadel PJ, Wang Z, Arbique D, Victor R, Vongpatanasin W. Adiposity-Independent Sympathetic Activity in Black Men. J Appl Physiol 2010;108(6): 1613-1618.

Allen C, Dunn S, Macaulay T, <u>Mukherjee D</u>. Clopidogrel – PPI interaction: A Primer for Clinicians. Cardiovascular & Hematological Disorders. Drug Targets 2010:10(1):66-72.

Bilkoo P, <u>Mukherjee D</u>. Percutaneous Versus Surgical Revascularization for Symptomatic Carotid Artery Disease. Current Cardiology Reports 2009;11(5):384-90.

Camilleri M, Thorna NK, Ringel Y, Hasler WL, Kuo B, Esfandyari T, Gupta A, Scott SM, McCallum RW, Parkman HP, Soffer E, Wilding GE, Semler JR, Rao SS. Wireless pH-motility Capsule for Colonic Transit: Prospective Comparison with Radiopaque Markers in Chronic Constipation.

Neurogastroenterol Motil. 2010;22(8): 874-82.

<u>Chamberlin W</u>. Networks, Emergence, Iteration and Evolution. Emergence, Iteration and Evolution 2009;11(4): 91-98.

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

<u>Dias A, Garcia C</u>, Majewski M, Wallner G, <u>McCallum RW</u>, <u>Sarosiek J</u>. Gastric Juice Prostaglandins and Peptide Growth Factors as Potential Markers of Chronic Atrophic Gastritis, Intestinal Metaplasia and Gastric Cancer: Their Potential Clinical Implications. Dig. Dis. & Sci 2010: Submitted.

Ejskjaer N, Dimcevski, Wo J, Hellström PM, Gormsen LC, <u>Sarosiek I</u>, Softeland E, Nowak T, Pezzullo JC, Shaughnessy L, Kosutic G, <u>McCallum RW</u>. Safety and Efficacy of Ghrelin Agonist TZP-101 in Relieving Symptoms in Patients with Diabetic Gastroparesis: A Randomized, Placebo-Controlled Study. Neurogastroenterol Motil 2010;22:1069–e281.

Feit S, **Zuckerman MJ**. Gastroesophageal reflux disease. British Medical Journal: Point of Care. 6 Jan 2010. Available from: URL:http://www.pointofcare.bmj.com

Ferrer G, Villaorduna C, Escobedo M, Vlasich E, <u>Rivera M.</u> Outcomes of Multidrug-Resistant Tuberculosis among Binational Cases in El Paso, Texas. Am J Trop Med Hyg submitted 2010

<u>Figueroa-Casas JB</u>, Montoya R, Arzabala A, Connery SM. Comparison between automatic tube compensation and continuous positive airway pressure during spontaneous breathing trials. Respir Care. 2010;55(5):549-54.

<u>Francis MD</u>, Zahnd WE, Varney A, Scaife SL, <u>Francis ML</u>. Effect of number of clinics and panel size on patient continuity for medical residents. J Grad Med Ed. 2009;1:310-5.

<u>Francis ML</u>, Scaife SL, Zahnd WE, Cook EF, Schneeweiss S. Joint replacement surgeries among Medicare beneficiaries in rural compared to urban areas. Arthritis Rheum. 2009;60:3554-62.

<u>Francis ML</u>, Varghese JJ, Mathew J, Koneru S, Scaife SL, Zahnd WE. Outcomes in rheumatoid arthritis patients with a myocardial infarction. Am J Med. In Press.

Friesen CA, Lin Z, Schurman JV, Andre L, <u>McCallum RW</u>. The effect of a meal and water loading on heart rate variability in children with functional dyspepsia. Dig Dis Sci. 2010;55(8):2283-7.

Hasler WL, Saad RJ, Rao SS, Wilding GE, Parkman HP, Koch KL, McCallum RW, Kuo B, Sarosiek I, Sitrin MD, Semler JR, Chey WD. Heightened colon motor activity measured by a wireless capsule in patients with constipation: relation to colon transit and IBS. Am J Physiol Gastrointest Liver Physiol. 2009;297(6):G1107-14.

<u>Hejazi RA</u>, Reddymasu SC, Namin F, Lavenbarg T, Foran P, <u>McCallum RW</u>.

<u>Efficacy of tricyclic antidepressant therapy in adults with cyclic vomiting syndrome: a two-year follow-up study.</u> J Clin Gastroenterol. 2010;44(1):18-21.

Hejazi RA, Lavenbarg TH, Foran P, McCallum RW. Who are the nonresponders to standard treatment with tricyclic antidepressant agents for cyclic vomiting syndrome in adults? Aliment Pharmacol Ther. 2010;31(2):295-301.

Hejazi RA, Lavenbarg TH, McCallum RW. Spectrum of gastric emptying patterns in adult patients with cyclic vomiting syndrome. Neurogastroenterol Motil. 2010 Aug 19. [Epub ahead of print]

Hejazi RA, Patil H, <u>McCallum RW</u>. Dumping syndrome: establishing criteria for diagnosis and identifying new etiologies. Dig Dis Sci. 2010;55(1):117-23.

Hejazi RA, Reddymasu SC, Sostarich S, <u>McCallum RW</u>. Disturbances of esophageal motility in eosinophilic esophagitis: A Case Series. Dysphagia. 2010;25(3):231-7.

Hou Q, Lin Z, Dusing RW, Gajewski BJ, <u>McCallum RW</u>. A Bayesian hierarchical assessment of gastric emptying with the linear, power exponential and modified power exponential models.

Neurogastroenterol Motil 2010 July 22 [Epub ahead of print].

Hundley WG, Bluemke DA, Finn JP, Flamm SD, Fogel MA, Friedrich MG, Ho VB, Jerosch-Herold M, Kramer CM, Manning WJ, Patel M, Pohost GM, Stillman AE, White RD, Woodard PK; ACCF Task Force, Harrington RA, Anderson JL, Bates ER, Bridges CR, Eisenberg MJ, Ferrari VA, Grines CL, Hlatky MA, Jacobs AK, Kaul S, Lichtenberg RC, Lindner JR, Moliterno DJ, Mukherjee D, Pohost GM, Rosenson RS, Schofield RS, Shubrooks SJ Jr, Stein JH, Tracy CM, Weitz HH, Wesley DJ. ACCF/ACR/AHA/NASCI/SCMR 2010 Expert Consensus Document on Cardiovascular Magnetic Resonance: a report of the American College of Cardiology Foundation Task Force on Expert Consensus Documents. Circulation. 2010:121(22):2462-508.

Johnson CB, Ahmeti M, Tyroch AH, **Zuckerman MJ**, Hakim MN. Gastric mucormycosis as a cause of life-threatening upper gastrointestinal bleeding in a trauma patient. Am Surgeon 2010;76(7): E76-E77. (online).

Kloetzer L, Chey WD, <u>McCallum RW</u>, Koch KL, Wo JM, Sitrin M, Katz LA, Lackner JM, Parkman HP, Wilding GE, Semler JR, Hasler WL, Kuo B. Motility of the antroduodenum in healthy and gastroparetics characterized by wireless motility capsule. Neurogastroenterol Motil 2010;22(5):527-33.

Kovach RA, Griffen DL, <u>Francis ML</u>. Evaluating emergency medicine faculty at end-of-shift. West J Emerg Med. In Press.

Leung S, <u>Mukherjee D</u>. Contemporary Management of Hypertension - How to optimize therapy. Cardiovascular & Hematological Disorders - Drug Targets 2009;9:181-92.

Lin Z, <u>Sarosiek I</u>, Forster J, Damjanov I, Hou Q, <u>McCallum RW</u>. Association of the status of interstitial cells of Cajal and electrogastrogram parameters, gastric emptying and symptoms in patients with gastroparesis. Neurogastroenterol Motil. 2010;22(1):56-61.

Mark DB, Berman DS, Budoff MJ, Carr JJ, Gerber TC, Hecht HS, Hlatky MA, Hodgson JM, Lauer MS, Miller JM, Morin RL, <u>Mukherjee D</u>, Poon M, Rubin GD, Schwartz RS.

ACCF/ACR/AHA/NASCI/SAIP/SCAI/SCCT 2010 Expert Consensus Document on Coronary

Computed Tomographic Angiography. A Report of the American College of Cardiology Foundation Task Force on Expert Consensus Documents. Circulation. 2010:121:2509-2543.

Mark DB, Berman DS, Lauer MS, Budoff MJ, Miller JM, Carr JJ, Morin RL, Gerber TC, <u>Mukherjee</u> <u>D</u>, Hecht HS, Poon M, Hodgson JM, Rubin GD, Hlatky MA, Schwartz RS.

ACCF/AHA/SCAI/SCCT/SAIP/ACR Clinical Expert Consensus Document on CT Angiography. J Am Coll Cardiol 2010:55(23):2663-99.

Mark DB, Berman DS, Lauer MS, Budoff MJ, Miller JM, Carr JJ, Morin RL, Gerber TC, <u>Mukherjee</u> <u>D</u>, Hecht HS, Poon M, Hodgson JM, Rubin GD, Hlatky MA, Schwartz RS.

ACCF/AHA/SCAI/SCCT/SAIP/ACR Clinical Expert Consensus Document on CT Angiography.

Catheterization and Cardiovascular Interventions 2010:76:E1–E42.

Marshall WG Jr, Boone BA, <u>Burgos JD</u>, Gografe SI, Baldwin MK, Danielson ML, Larson MJ, Caretto DR, Cruz Y, Ferraro B, Heller LC, Ugen KE, Jaroszeski MJ, Heller R. Electroporation-mediated delivery of a naked DNA plasmid expressing VEGF to the porcine heart enhances protein expression. Gene Ther. 2010;17(3):419-23.

McCallum RW, Dusing RW, Sarosiek I, Cocjin J, Forster J, Lin Z. Mechanisms of symptomatic improvement after gastric electrical stimulation in gastroparetic patients. Neurogastroenterol Motil. 2010 Feb;22(2):161-7.

McCallum RW, Snape W, Brody F, Wo J, Parkman HP, Nowak T. Gastric Electrical Stimulation with Enterra Therapy Improves Symptoms from Diabetic Gastroparesis in a Prospective Study. Clin Gastroenterol Motil 2010 Jun 9 [Epub ahead of print].

<u>Mukherjee D</u>. ACP Journal Club. Review: Aspirin does not reduce CV events but may reduce nonfatal stroke in peripheral artery disease. Ann Intern Med. 2009:15;151(6):JC3-5, JC3-4.

<u>Mukherjee D</u>. ACP Journal Club. Review: Aspirin reduces vascular events but increases bleeding in primary and secondary prevention. Ann Intern Med. 2009:15;151(6):JC3-4, JC3-5.

Mukherjee D. The High Cost of Non-adherence after PCI - Can Healthcare Reform Solve this Problem? Am Heart J 2009:158(4):506-8.

<u>Mukherjee D</u>, Cho L. Peripheral arterial disease: considerations in risks, diagnosis, and treatment. J Natl Med Assoc. 2009:101:999-1008.

<u>Mukherjee D</u>, Moliterno DJ. Second-generation Drug-Eluting Stents and the Continuous Need for Rapidly Available Real World Data. J Am Coll Cardiol Interv 2009:2(12);1236-1239.

<u>Mukherjee D</u>. Review: aspirin reduces vascular events but increases bleeding in primary and secondary prevention. Evid Based Med 2009:14(6):172 -3.

<u>Mukherjee D</u>, Eagle K. The importance of early diagnosis and treatment in peripheral arterial disease: insights from the PARTNERS and REACH registries. Curr Vasc Pharmacol. 2010;8(3):293-300.

Mukherjee D, Eagle KA. The Importance of Early Diagnosis and Treatment in Peripheral Arterial Disease: Insights from the PARTNERS and REACH Registries. Curr Vasc Pharmacol. 2010:8(3):293-300.

Oliphant CS, Doby JB, Blade CL, Das K, <u>Mukherjee D</u>, Das P. Emerging P2Y(12) Receptor Antagonists: Role in Coronary Artery Disease. Curr Vasc Pharmacol. 2010:8(1):93-101.

Parkman HP, Camilleri M, Farrugia G, McCallum RW, Bharucha AE, Mayer EA, Tack JF, Spiller R, Horowitz M, Vinik AI, Galligan JJ, Pasricha PJ, Kuo B, Szarka LA, Marciani L, Jones K, Parrish CR, Sandroni P, Abell T, Ordog T, Hasler W, Koch KL, Sanders K, Norton NJ, Hamilton F. Gastroparesis and functional dyspepsia: excerpts from the AGA/ANMS meeting. Neurogastroenterol Motil. 2010;22(2):113-33.

Paschoal PO, <u>Chamberlin W</u>. Review of the 1st annual world congress of immunodiseases and therapeutics. Expert Rev Clin Immunol. 2010;6(5):757-9.

Pignone M, Alberts M, Cushman M, Inzucchi S, <u>Mukherjee D</u>, Rosenson RS, Williams CD, Wilson P. Aspirin for Primary Prevention of Cardiovascular Events in People with Diabetes - A scientific statement from the American Heart Association and the American Diabetes Association. Circulation 2010:121(24):2694-2701.

Pignone M, Alberts MJ, Colwell JA, Cushman M, Inzucchi SE, <u>Mukherjee D</u>, Rosenson RS, Williams CD, Wilson PW, Kirkman MS. Aspirin for Primary Prevention of Cardiovascular Events in People With Diabetes: A position statement of the American Diabetes Association, a scientific statement of the American Heart Association, and an expert consensus document of the American College of Cardiology Foundation. J Am Coll Cardiol 2010:55(25);2878-2886.

Pignone M, Alberts MJ, Colwell JA, Cushman M, Inzucchi SE, <u>Mukherjee D</u>, Rosenson RS, Williams CD, Wilson PW, Kirkman MS. Aspirin for Primary Prevention of Cardiovascular Events in People With Diabetes: A position statement of the American Diabetes Association, a scientific statement of the American Heart Association, and an expert consensus document of the American College of Cardiology Foundation. Diabetes Care 2010:33(6):1395-402.

Ranatunga SM, Meyer S, Redding S, Scaife SL, <u>Francis MD</u>, <u>Francis ML</u>. Introduction of the chronic care model into an academic rheumatology clinic. Qual Saf Health Care. 2010 Apr 27. [Epub ahead of print]

Ranatunga S, Myers S, Redding S, Scaife SL, <u>Francis MD</u>, <u>Francis ML</u>. Introduction of the chronic care model into an academic rheumatology clinic. Qual Saf Health Care. 2010 Apr 27. [Epub ahead of print]

Reddymasu SC, <u>McCallum RM</u>. Small Intestinal Bacterial Overgrowth in Gastroparesis: Are there any Predictors? J Clin Gastroenterol 2010;44(1);e8-13.

Reddymasu SC, <u>Sarosiek I</u>, <u>McCallum RW</u>. Severe gastroparesis: medical therapy or gastric electrical stimulation. Clin Gastroenterol Hepatol. 2010;8(2):117-24.

Reddymasu SC, Sostarich S, <u>McCallum RW</u>. Small Intestinal Bacterial Overgrowth in Irritable Bowel Syndrome: Are There Any Predictors? BMC Gastroenterol. 2010;10;23-27.

Saad RJ, Rao SS, Koch KL, Kuo B, Parkman HP, McCallum RW, Sitrin MD, Wilding GE, Semler JR, Chey WD. Do stool form and frequency correlate with whole-gut and colonic transit? Results from a multicenter study in constipated individuals and healthy controls. Am J Gastroenterol. 2010;105(2):403-11.

Roffi M, <u>Mukherjee D</u>, Clair DG. Carotid Artery Stenting Versus Endarterectomy. Eur Heart J. 2009:30(22):2693-704.

<u>Sarosiek I</u>, Olyaee M, Majewski M, Sidorenko E, Roeser K, Sostarich S, <u>Sarosiek J</u>. Significant Increase of Esophageal Mucin Secretion in Patients with Reflux Esophagitis after Healing with Rabeprazole: Its Esophagoprotective Potential. Dig Dis & Sci 2009:54:2137-42.

<u>Sarosiek I</u>, Selover KH, Katz LA, Semler JR, Wilding GE, Lackner JM, Sitrin MD, Kuo B, Chey WD, Hasler WL, Koch KL, Parkman HP, <u>Sarosiek J</u>, <u>McCallum RW</u>. <u>The assessment of regional gut transit times in healthy controls and patients with gastroparesis using wireless motility technology</u>. Aliment Pharmacol Ther. 2010;31(2):313-22.

Saab F, <u>Mukherjee D</u>, Gurm H, Motivala A, Montgomery D, Kline-Rogers E, Rubenfire M, and Eagle KA. Risk Factors in First Presentation Acute Coronary Syndromes (ACS): How do we Move From Population to Individualized Risk Prediction? Angiology 2010:60(6):663-7. Epub 2009 Sep 2

<u>Tolouian R</u>, Rao DS, Goggins M, Bhat S, Gupta A. <u>Seasonal variation of vitamin D in patients on hemodialysis</u>. Clin Nephrol. 2010;74(1):19-24.

<u>Tolouian R</u>, <u>Hernandez GT</u>, Chiang WY, Gupta A. <u>A new approach for evaluating bone turnover in chronic kidney disease.</u> Eur J Intern Med. 2010;21(3):230-2.

Varghese JJ, Koneru S, Scaife SL, Zahnd WE, <u>Francis ML</u>. Mortality after revascularization of patients with rheumatoid arthritis. J Thorac Cardiovasc Surg. 2010;140:91-6.

Zahnd WE, Goldfarb J, Scaife SL, <u>Francis ML</u>. Rural-urban differences in behaviors to prevent skin cancer: An analysis of the Health Information National Trends survey. J Am Acad Dermatol. 2010;62:950-6.

Zahnd WE, Scaife SL, <u>Francis ML</u>. Health literacy skills in rural and urban populations. Am J Health Behav. 2009;33:550-7.

Abstracts

Beach S, Salters C, Hamdalla H, Booth D, Latif A, Bilkoo P, <u>Mukherjee D</u>, Moliterno D, Ziada K. Risk Of Major Adverse Events Associated With Non-Cardiac Procedures Among Patients With Drug-Eluting Coronary Artery Stents. J Am Coll Cardiol; 2009:53(10): (Suppl A):A47.

<u>Casner PR</u>. Do Individual Teaching sessions with residents Enhance Test Performance in Geriatrics? J Am Ger Soc. 58:S157; 2010.

<u>Hejazi RA</u>, <u>Sarosiek I</u>, Foran IP, Roeser K, <u>McCallum RW</u>. Does grading the severity of gastropresis based on scintigraphic gastric emptying predict the treatment outcome of patients with gastroparesis? Neurogastroenterol Motil 2009; 21:(Suppl 72):A235.

<u>Hejazi RA</u>, Lavenbarg TH, Foran P, <u>McCallum RW</u>. Who are the non-responders to standard therapy for Cyclic Vomiting Syndrome in adults? A large single center experience. Neurogastroenterol Motil 2009; 21:(Suppl 65):A211.

<u>Hejazi RA</u>, Lavenbarg T, Dimachkie TM, Pasnoor M, Foran P, Herbelin L, <u>McCallum RW</u>. Abnormalities in the Autonomic Nerve Function Profile of Adults with Cyclic Vomiting Syndrome. Am J Gastroenterol 2009; 104:(S488):A1307.

<u>Hejazi RA</u>, Lavenbarg T, Stanley S, Foran P, <u>McCallum RW</u>. Serum Ghrelin Level in Adults with Cyclic Vomiting Syndrome. Am J Gastroenterol 2009; 104:(S497):A1331.

<u>Hejazi RA</u>, Lavenbarg T, Foran P, <u>McCallum RW</u>. Evaluation of autonomic and vagal nerve function in adult patients with cyclic vomiting syndrome. J Inves Med 2010;58:A430.

<u>Hejazi RA</u>, Beyer P, Hou Q, <u>McCallum RW</u>. Upper Gastrointestinal Symptoms and Not Lower Gastrointestinal Symptoms Are More Common in Diabetics Than Healthy Controls. Gastroenterology 2010;136:M1322.

Majewski M, Jaworski T, Skoczylas T, Wallner G, <u>McCallum RW</u>, <u>Sarosiek J</u>. Augmented Salivary Epidermal Growth Factor Secretion in Patients with Negative Endoscopically Reflux Disease Could Be a Key in Prevention of the Esophageal Mucosal Injury and Complications. Gastroenterology 2010;138(Suppl 1):S1484.

Majewski M, WallnerG, McCallum RW, Sarosiek J. Enhanced Salivary Protection in Patients with Negative Endoscopically Reflux Disease Could be a Factor Contributing to Prevention of the Esophageal Mucosal Injury and Complications. Am. J. Gastroenterol 2009;104(10):S31.

Ragland P; Vega N; Fester A; Vasquez D; Alhamad T; Connery S; Madero F; Alfaro R; Dahu J; Payan F; Chauvet M; Tarwater P; <u>Hernandez GT</u>. The Association Between Health Literacy And Glycemic Control Among Mexican American Diabetics With Chronic Kidney Disease: A Preliminary Report From The Paso Del Norte Kidney Disease Study (PNKDS). Ethnicity & Disease 2009;19(Autumn), S23.

<u>Sarosiek I</u>, Roeser K, Foster J, Lin Z, <u>Sarosiek J</u>, <u>McCallum RW</u>. What Are the Optimal Parameters of the Enterra Gastric Electrical Stimulation to Achieve Long Term Symptom Control in Gastroparetic Patients? Am J Gastroenterol 2009;104(10):S57.

<u>Sarosiek I</u>, Roeser K, Forster J, <u>Hejazi RA</u>, <u>Sarosiek J</u>, <u>McCallum R</u>. New Surgery for Gastroparesis-Enterra Plus Pyloroplasty: Its Efficacy in Different Etiologies of Gastroparesis Gastroenterology 2010;138(Suppl 1):S-716-S-717.

<u>Sarosiek I</u>, Sochacka B, Roeser K, <u>Sarosiek J</u>, <u>McCallum R</u>. Does Small Intestinal Bacterial Overgrowth Affect pH Readings as Recorded by Wireless Motility Capsule Technology in the GI Tract? Gastroenterology 2010;138 (Suppl 1):S-669.

<u>Sarosiek J</u>, Jaworski T, Majewski M, Garcia CJ, <u>Sarosiek I</u>, Wallner G. Injurious Impact of Naproxen on the Esophageal Mucosa in Humans Could Be at Least Partly Mediated Through Its Detrimental Effect on the Protective Quality of Salivary Secretion: Its Potential Clinical Implication. Gastrointest Endosc 2010;71(10):AB174.

Shah AM, Kuvlieva L, Ziada K, Hamdalla H, Booth DC, Gurley JC, Moliterno DJ, <u>Mukherjee D</u>. Adherence to evidence based therapy guidelines in patients undergoing peripheral arterial interventions J Am Coll Cardiol 2009:53(10): (Suppl A):A451.

<u>Tolouian R</u>, Chiang Yuan W, <u>Hernandez GT</u>, Gupta A.. Looking for a New Marker in Renal Osteodystrophy, Time for a Change. Iran J Kidney Dis 2009;3(Suppl):O502.

<u>Tolouian R</u>, Rao S, Goggins M. The Effects of Race and the Season on Hypovitaminosis D in Patients on Hemodialysis. Iran JKidney Dis 2009;3(Suppl):P311.

Tolouian R, Salameh H. Proper Assessment of a Patient Saves More than a 1,000,000\$! Iran J Kidney Dis 2009;3(Suppl):P309.

Zuckerman MJ, Fleming RV, Ramirez R, Huerta A, Lee D, Boman D, Variyam E. The varied manifestations of amebic colitis (abstr). Am J Gastroenterol 2009; 104 (Suppl 3): S340.

Published Case Reports

Abdelfattah A, <u>Alhamad T</u>, <u>Figueroa J</u>. The association of unusual site of an idiopathic deep vein thrombosis and chylothorax in an adult. <u>The Internet Journal of Internal Medicine 2010 Volume 8</u> Number 2

<u>Alhamad T</u>, Chung K, <u>Meza A</u>, <u>Elsayed A</u>, <u>Radwan W</u>: Case Report: Urinary Mycobacterium Gordonae. The Internet Journal of Infectious Diseases. 2010 Volume 8 Number 2.

Porres-Aguilar M, Flavin NE, <u>Fleming RV</u>, <u>Lalude O</u>. Severe Bivalvular Pneumococcal Endocarditis and Suppurative Pericarditis in an Immunocompetent Patient. Intern Med. 2010;49(4):321-3.

<u>Ramirez R, Zuckerman MZ, Hejazi RA</u>, Chokhavatia S. Treatment of Acute Colonic Pseudo-Obstruction with Tegaserod. Am J Med Sci. 2010 Jun;339(6):575-6.

Tolouian R, Salameh H. Treat the patient not the lab value. NDT Plus 2010;3:81-3.

Book Chapters

<u>Hejazi RA</u>, <u>McCallum RW</u>. Gastrointestinal Hormone Testing. In: Parkman HP, McCallum RW, Rao S. GI Motility Testing: A Laboratory and Office Handbook. 1st ed. Thorofare: SLACK Incorporated; 2010. P. 279-284.

<u>Hejazi RA</u>, <u>McCallum RW</u>. Breath tests for small intestine bacterial overgrowth. In: Parkman HP, McCallum RW, Rao S. GI Motility Testing: A Laboratory and Office Handbook. 1st ed. Thorofare: SLACK Incorporated; 2010. P. 147-152.

Multimedia and Other Online Publications

Mukherjee D BMJ Point of Care Monograph (2008, 2010) Preoperative cardiac risk assessment

<u>Mukherjee D</u> BMJ Point of Care Monograph (2009, 2010) Essential Thrombocytosis

Miller AV, Ranatunga SM, **Francis ML**. Gout. <u>eMedicine from WebMD</u>. February 20, 2009. Available at: http://www.emedicine.com/med/topic924.htm. Updated April 20, 2010. Available at: http://emedicine.medscape.com/article/329958-overview.

Miller AV, Ranatunga SM, **Francis ML**. Sjogren Syndrome. <u>eMedicine from WebMD</u>. March 13, 2009. Updated June 09, 2010. Available at: http://emedicine.medscape.com/article/332125-overview.

Resident Research Activity

(IM Resident Bold, Faculty Sponsor / Mentor)

Journal Articles

<u>Dias A, Garcia C</u>, Majewski M, Wallner G, <u>McCallum RW</u>, <u>Sarosiek J</u>. Gastric Juice Prostaglandins and Peptide Growth Factors as Potential Markers of Chronic Atrophic Gastritis, Intestinal Metaplasia and Gastric Cancer: Their Potential Clinical Implications. Dig. Dis. & Sci 2010: Submitted.

<u>Figueroa-Casas JB</u>, Montoya R, <u>Arzabala A</u>, Connery SM. Comparison between automatic tube compensation and continuous positive airway pressure during spontaneous breathing trials. Respir Care. 2010;55(5):549-54.

Abstracts

Ragland P; Vega N; Fester A; Vasquez D; <u>Alhamad T</u>; Connery SM; Madero F; <u>Alfaro R</u>; Dahu J; Payan F; Chauvet M; Tarwater P; <u>Hernandez GT</u>. The Association Between Health Literacy And Glycemic Control Among Mexican American Diabetics With Chronic Kidney Disease: A Preliminary Report From The Paso Del Norte Kidney Disease Study (PNKDS) Ethnicity & Disease 2009;19(Autumn), S23.

Ramirez R, Zuckerman MZ, Hejazi RA, Chokhavatia S. Treatment of Acute Colonic Pseudo-Obstruction with Tegaserod. Am J Med Sci. 2010 Jun;339(6):575-6.

Sarosiek J, Jaworski T, Majewski M, Garcia CJ, Sarosiek I, Wallner G. Injurious Impact of Naproxen on the Esophageal Mucosa in Humans Could Be at Least Partly Mediated Through Its Detrimental Effect on the Protective Quality of Salivary Secretion: Its Potential Clinical Implication. Gastrointest Endosc 2010;71(10):AB174.

<u>Tolouian R</u>, <u>Salameh H</u>. Proper Assessment of a Patient Saves More than a 1,000,000\$! Iranian Journal of Kidney Diseases 2009;3(Suppl):P309, pg 73.

Zuckerman MJ, Fleming RV, Ramirez R, Huerta A, Lee D, Boman D, Variyam E. The varied manifestations of amebic colitis (abstr). Am J Gastroenterol 2009; 104 (Suppl 3): S340.

Published Case Reports

Abdelfattah A, <u>Alhamad T</u>, <u>Figueroa J</u>. The association of unusual site of an idiopathic deep vein thrombosis and chylothorax in an adult. <u>The Internet Journal of Internal Medicine 2010 Volume 8 Number 2</u>

<u>Alhamad T</u>, Chung K, <u>Meza A</u>, <u>Elsayed A</u>, Radwan W: Case Report: Urinary Mycobacterium Gordonae. The Internet Journal of Infectious Diseases. 2010 Volume 8 Number 2

Ramirez R, Zuckerman MZ, *Hejazi RA*, Chokhavatia S. Treatment of Acute Colonic Pseudo-Obstruction with Tegaserod. Am J Med Sci. 2010 Jun;339(6):575-6.

<u>Tolouian R, Salameh H</u>. Treat the patient not the lab value. NDT Plus 2010;3:81 - 83.

OPEN, ACTIVE, ONGOING RESEARCH Investigator Initiated Research Studies GRANT FUNDED FY10

- ➤ New Diagnosis and Treatment Approaches for Patients with Gastroparesis.
 - a. Gastroparesis Registry (GpR) Gastroparesis Clinical Research Consortium
 - b. Nortriptyline for Idopathic Gastroparesis: A Multicenter, Randomized, Double-Masked, Placebo-Controlled Trial (NORIG)

PI- Richard McCallum, MD. NIH/NIDDK. October, 2009 – March 31, 2010. * Transfer. \$186,199

- ➤ Development of a reliable marker for *Mycobacterium paratuberculosis* bowel diseases. PI- William Chamberlin, MD & Rod Chiodini, PhD. *Lizanell and Colbert Coldwell Foundation* January 1, 2010 December 31, 2011. \$68,745
- ➤ Development of reliable markers for *Mycobacterium paratuberculosis* associated bowel disease. PI William Chamberlin, MD & Rod Chiodini, PhD. *Paul L Foster, SOM Seed Grant* 1 October 2009 30 Sept 2010. \$18,079
- ➤ Are Kidneys Causing Coronary Calcification and Heart Disease? PI- Ramin Tolouian, MD. Lizanell and Colbert Coldwell Foundation January 1 2010 December 31 2011. \$37,140
- Administrative Supplement (ARRA) to New Diagnosis and Treatment Approaches for Patients with Gastroparesis. PI – Richard McCallum, MD NIH/NIDDK April 01 2010 – March 31 2010 \$149,358
- ➤ Student Administrative Supplement (ARRA) to New Diagnosis and Treatment Approaches for Patients with Gastroparesis. PI Richard McCallum, MD NIH/NIDDK April 01 2010 March 31 2010 \$45,603
- ➤ Pilot Study of the Safety, Feasibility and Potential Efficacy of Continuous Glucose Monitoring and Insulin Pump Therapy in Diabetic Gastroparesis (GLUMIT-DG) PI Richard McCallum, MD NIH/NIDDK October 01, 2009 March 31 2011 \$90,178

Investigator Initiated Research Studies

Unfunded

- Descriptive Epidemiology and Ethnic (Hispanic versus non-Hispanic) Comparison of Gastric Cancer Incidence in the State of Texas and El Paso County for the Period 1995 through 2006 - Zuber Mulla, PhD and Javier Corral, MD
- The determination of liver and cardiac iron in patients on chronic hemodialysis by Magnetic Resonance Imaging (MRI)—Ramin Tolouian, MD
- A randomized, prospective, double-blind, placebo controlled, dose ranging evaluation of urine pH after 24 hr treatment with proton pump inhibitor—Ramin Tolouian, MD
- Streptococcus bovis and gastrointestinal disease in a U.S.- Mexico border city. Marc Zuckerman, MD
- Changing patterns of Microbe Resistance in a Public Hospital (Robert Ewing Thomason Hospital) Armando Meza, MD
- Optimizing the Continuity Clinic Experience for Internal Medicine Residents and their Patients M Francis, MD
- ❖ Urine PH in patients taking Proton Pump Inhibitors (PPIs)—Ramin Tolouian, MD
- Epidemiological profile of coccidioidomycosis infection in a predominantly Hispanic population Armando Meza, MD
- * PEEP titration in Acute Lung Injury Juan Figueroa-Casas, MD
- Case Control Study Of West Nile Virus Encephalitis in a border town Hospital Armando Meza, MD
- Comparing Individual Teaching of Geriatrics versus Self Study for Residents In Internal Medicine Paul Casner, MD, PhD
- The Relationship Between Restorative Impact of Rabeprazole on Salivary and Gastric Mucus and Mucin Production Impairment during Naproxen Administration and Salivary and Gastric Epidermal Growth Factor (EGF) Secretion and EGF Gene Polymorphism: Its Potential Clinical Significance. Jerzy Sarosiek, MD. PhD
- Review of a series of renal biopsies presenting crescentic glomerulonephritis in a hispanic based population at the US Mexico border. German Hemandez, MD
- * HLA Antigen frequencies in Mexican-American and Caucasian populations Ramin Tolouian, MD
- Application of Appropriateness Criteria to Single-Photon Emission Computed Tomography (SPECT) Myocardial perfusion imaging in a University Medical Center – Omosalewa Lalude, M.D

- **❖** Risk of Pulmonary Embolism in Specific Subgroups of Patients with Distal Deep Vein Thrombosis − Harold Hughes, MD
- ❖ Retrospective surveillance of the Incidence, clinical features and complications of Clostridium Difficile Associated Disease (CDAD) in a predominant Hispanic population review during the period of 2006-2008. A Texas Tech University Health Science Center - El Paso Campus- and Thomason General Hospital Study – Armando Meza, MD
- **Evaluation of correlation between hyponatremia and prevalence of falls and fractures** Ramin Tolouian, MD.
- ❖ Prospective study to compare demographic characteristics, signs and symptoms of influenza and influenza-like illness, and outcomes of patients of all ages presenting with influenza-like conditions for the development of diagnostic and prognostic tools − Todd Bell, MD and Rhonda Fleming, MD

Pharmaceutically Sponsored Clinical Research Studies Open, Active Clinical Trials (As of August 2010)

- o An Open-label, Long-term Safety Study of Oral Linaclotide Administered to Patients with Chronic Constipation or Irritable Bowel Syndrome with Constipation. Marc Zuckerman, MD. Ironwood Pharmaceuticals. *Oct* 2008 *Current*.
- o A Phase 3b Multicenter, Single-Blind Trial to Evaluate the Efficacy of Dexlansoprazole MR 30 mg in Maintaining Control of Gastroesophageal Reflux Disease Symptoms in Subjects on Prior Twice Daily Proton Pump Inhibitor Therapy. Marc Zuckerman, MD. Takeda Global Research and Development Center, Inc. *March* 2009 Current
- A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Phase 2
 Evaluation of the Safety and Efficacy of Once-Daily Administrations of TZP 102 for the
 Treatment of Symptomatic Gastroparesis in Patients with Diabetes Mellitus Marc
 Zuckerman, MD. Tranzyme Inc. March 2009 Current
- A Phase 3, Randomized, Double-blind, Placebo-controlled, Parallel-group Trial of Linaclotide Administered Orally for 26 Weeks in Patients with Irritable Bowel Syndrome with Constipation – Marc Zuckerman, MD. Ironwood Pharmaceuticals. July 2009 - Current
- A Phase IIb, Double-blind, Randomised, Placebo-controlled, Multi centre, Dose-finding Efficacy and Safety
 Study of a Range of Doses of A3309 in Patients with Chronic Idiopathic Constipation Marc Zuckerman, MD.
 Albireo AB. November 2009 current
- A 6-Month, Phase 3, Randomized, Double-Blind, Parallel-Group, Controlled, Multi-Center Study to
 Evaluate the Incidence of Gastric Ulcers Following Administration of Either PA32540 or Enteric Coated
 Aspirin 325 mg in Subjects Who Are at Risk for Developing Aspirin-Associated Ulcers. Marc Zuckerman, MD.
 POZEN, Inc. December 2009 current
- A 12-Week, Randomized, Double-Blind, Placebo-Controlled Study of Asimadoline in Subjects With
 Diarrhea-Predominant Irritable Bowel Syndrome Marc Zuckerman, MD. Tioga Pharmaceuticals, Inc. February
 2010-current
- MGAWN1 A Phase 2, Stratified, Randomized, Double-Blind Placebo-Controlled Study to Evaluate the Safety and Efficacy of MGAWN1 in Subjects with Laboratory-documented West Nile Fever or Suspected Central Nervous System Infection Due to West Nile Virus - Armando Meza, MD. Macrogenics, Inc. July 2009 -Current
- Therapies for Resistant Focal Segmental Glomerulosclerosis (FSGS) A Phase II Clinical Trial German Hemandez, MD, NIH/NIDDK. March 2009 – Curment
- Focal segmental glomerulosclerosis (FSGS) Clinical Trial (FSGS-CT): Bridge to Cohort Long Term
 Follow Up Study German Hernandez, MD, NIH Sponsored, Aug 2010 Current

Pharmaceutically Sponsored Clinical Research Studies

Completed Clinical Trials

(close date between 1 Sept 2009 – 31 Aug 2010)

- o A 26-week randomised, controlled, open label, multicentre, multinational trial comparing efficacy and safety of SIBA with sitagliptin as add on to current oral antidiabetic treatment in insulin-naïve subjects with type 2 diabetes mellitus inadequately controlled with 1-2 oral antidiabetic drugs (metformin, sulphonylurea, glinides or pioglitazone). Short Title: A trial comparing efficacy and safety of NN1250 with sitagliptin in insulin naïve subjects with type 2 diabetes. Tamis Bright, MD Novo Nordisk Nov 2009 Aug 2010
- A Phase II, Double Blind, Randomized, Placebo-Controlled Study of the Safety, Tolerance and Activity of HE3286 When Administered Orally for 12 Weeks to Adult Patients with Type 2 Diabetes Mellitus – Tamis Bright, MD Hollis-Eden Pharmaceuticals, Sept 2008 – Oct 2009
- A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Phase 2 Evaluation of the Safety and Efficacy of Once-Daily Administrations of TZP 102 for the Treatment of Symptomatic Gastroparesis in Patients with Diabetes Mellitus – Marc Zuckerman, MD Tranzyme Inc March 2009 – Aug 2010.
- A Randomised, Double-Blind, Placebo Controlled, Parallel-Group, Multicenter Study To Evaluate The
 Efficacy and Safety of Two Doses of Ocrelizumab in Patients With WHO or ISN Class III or IV Nephritis Due
 To Systemic Lupus Erythematosus German Hernandez, MD. Hoffman La Roche and Genentech
 Pharmaceuticals, March 2008 July 2010
- o A multi-center, randomized, double-blind, active-controlled clinical trial to evaluate the safety and tolerability of 24 weeks treatment with vildagliptin (50 mg qd) versus sitagliptin (25 mg qd) in patients with type 2 diabetes and severe renal insufficiency . Dinorah Nutis, M.D. (initially German Hemandez, MD) Novartis Pharmaceuticals, Oct 2007 Jan 2010