

REFAAT HEGAZI
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APPOINTMENTS

Professor, Department of Public Health & Preventive Medicine (On Absence Leave)

Mansoura University Faculty of Medicine, Mansoura, Egypt 2020-Present

Director, Global Medical Affairs

Director, Scientific and Medical External Engagement

Abbott Nutrition R&D, Columbus, OH June 2018 - Present

Associate Professor, Department of Public Health & Preventive Medicine (On Absence Leave)

Mansoura University Faculty of Medicine, Mansoura, Egypt 2013-2020

Regional Medical Director, US & Canada

Abbott Diabetes Care, Alameda, CA June, 2017 – June 2018

Medical Director

Abbott Nutrition R&D, Columbus, OH February 2009 - May, 2017

Assistant Professor of Medicine

2006-2009
University of Pittsburgh Medical Center, Division of Gastroenterology, Hepatology & Nutrition, Pittsburgh, PA

Postdoctoral Fellow

2001-2006
University of Pittsburgh, Department of Medicine, GI Division Pittsburgh, PA

Instructor

1992-1996
Department of Public Health & Preventive Medicine
Mansoura University Faculty of Medicine, Mansoura, Egypt

Practicing Physician

1992-1996
Primary Care Practice. Manzala, Egypt

EDUCATION/ TRAINING

Franklin University, MBA 2017

University of Pittsburgh, PhD 2002

University of Pittsburgh, Master of Public Health 1998

Mansoura University, Master of Occupational Medicine 1995

Al-Ahram Specialized Hospital, Surgery Residency	1991-1992
Mansoura University Hospital, Internship	1990-1991
Mansoura University, Bachelor of Medicine & Surgery	1989

MEDICAL LICENSES/ CERTIFICATIONS

Ohio State Board of Medicine	2009
Pennsylvania State Board of Medicine	2006
National Board of Physician Nutrition Specialist	2001
Educational Commission for Foreign Medical Graduates	2000

MEMBERSHIPS

National Board of Physician Nutrition Specialists, Board Member	2019-
American College of Physicians	2014
American Society of Parenteral and Enteral Nutrition (ASPEN) Educational Fellowship Committee	2011

American Society of Parenteral and Enteral Nutrition (ASPEN)-Corporate Scientific Council	2011
ASPEN	2006
American Gastroenterology Association	2001
The North American Association for the Study of Obesity	2001
American Diabetes Association	1998

HONORS & AWARDS

Platinum Excellence Award, Abbott Nutrition Research & Development	2016
A.S.P.E.N Abstract of Distinction, Clinical Nutrition Week	2014
Luminary Award, Abbott Nutrition Research & Development	2013
Imedex Research Award	2005
	2004
Travel Award, University of Pittsburgh Department of Immunology	
Travel Award, Federation of Clinical Immunology Societies	2004
Dean's Excellence Award, Mansoura Faculty of Medicine	1985-1989

PUBLICATIONS

Theses/Dissertation:

- PhD Dissertation "The relationship between insulin resistance syndrome, body fat distribution, dietary intake variables and subclinical atherosclerosis in obese type 2 diabetics." Presented to the faculty at the Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, January, 2002
- Master thesis "Biological, clinical and dietary correlates of arterial stiffness." Presented to the faculty at the Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, December 1998
- Master thesis "Relationship between environmental pollution in Manzala Lake and health profile of fishermen." Presented to the Public Health faculty at the Faculty of Medicine, Mansoura University, Mansoura, Egypt, May 1995

Book Chapters:

- 1- **Refaat Hegazi**, Katie N. Robinson, Bridget Cassady, Sara Thomas, Mohamed El-Gamal, David Williams, Michael Bastasch. Nutrition Support for Cancer Patients throughout the Continuum of Care. In: Nutritional Oncology. Nutrition in Cancer Prevention, Treatment, and Survivorship. CRC Press 2021
- 2- **Refaat A Hegazi**, Amy Devitt-Maicher, Jeffrey I Mechanick. The transcultural Diabetes Nutrition Algorithm (tDNA): From Concept to Implementation. In: Glucose Intake and Utilization in Pre- diabetes and Diabetes: Induction of Cardiovascular disease. Elsevier, 2014
- 3- Jeffrey I. Mechanick, Albert E. Marchetti, Caroline Apovian, Alexander Koglin Benchimol, Peter H. Bisschop, Alexis Bolio-Galvis, **Refaat A. Hegazi**, David Jenkins, Enrique Mendoza,

Miguel Leon Sanz, Wayne Huey-Herng Sheu, Patrizio Tatti, Man-Wo Tsang, and Osama Hamdy. Diabetes-Specific Nutrition Algorithm: A Transcultural Program to Optimize Diabetes and Prediabetes Care. In, Coles L, ed. Clinical Nutrition: The Interface between Metabolism, Diet and Disease. CRC Books 2013.

- 4- **Refaat Hegazi**, Anand Seth. The role of curcumin in GI and liver diseases. In: Bioactive Food as Dietary Interventions for Liver and Gastrointestinal Disease. Elsevier, 2013
- 5- **Refaat Hegazi**, Anand Seth. The role of prebiotics in GI and liver diseases. In: Bioactive Food as Dietary Interventions for Liver and Gastrointestinal Disease. Elsevier, 2013
- 6- **Refaat Hegazi**, Prebiotics in Immuno-modulation for Treatment of Acute Pancreatitis. In: Watson R, Zibadi S, Preedy V, eds. Dietary Components and Immune Function. New York, NY: Humana Press, 2010: 611-624.

Peer-Reviewed Articles:

1. Robinson K, Cassady B, Hegazi R, Wischmeyer P. Preoperative Carbohydrate Loading in Surgical Patients with Type 2 Diabetes: Are Concerns Supported by Data?" accepted in Clinical Nutrition ESPEN
2. Williams DGA, Ohnuma T, Haines KL, Krishnamoorthy V, Raghunathan K, Sulo S, Cassady BA, Hegazi R, Wischmeyer PE. Association between early postoperative nutritional supplement utilisation and length of stay in malnourished hip fracture patients. Br J Anaesth. 2021 Mar;126(3):730-737
3. Deutz NE, Ziegler TR, Matheson EM, Matarese LE, Tappenden KA, Baggs GE, Nelson JL, Luo M, Hegazi R, Jonnalagadda SS; NOURISH Study Group. Reduced mortality risk in malnourished hospitalized older adult patients with COPD treated with a specialized oral nutritional supplement: Sub-group analysis of the NOURISH study. Clin Nutr. 2021 Mar;40(3):1388-1395
4. Williams DGA, Ohnuma T, Krishnamoorthy V, Raghunathan K, Sulo S, Cassady BA, Hegazi R, Wischmeyer PE. Postoperative Utilization of Oral Nutrition Supplements in Surgical Patients in US Hospitals. JPEN J Parenter Enteral Nutr. 2021 Mar;45(3):596-606.
5. Mechanick JI, Marchetti A, Hegazi R, Hamdy O. Diabetes-Specific Nutrition Formulas in the Management of Patients with Diabetes and Cardiometabolic Risk. Nutrients. 2020 Nov 25;12(12):E3616. doi: 10.3390/nu12123616.
6. Richards J, Arensberg MB, Thomas S, Kerr KW, Hegazi R, Bastasch M. Impact of Early Incorporation of Nutrition Interventions as a Component of Cancer Therapy in Adults: A Review. Nutrients. 2020 Nov 5;12(11):3403. doi: 10.3390/nu12113403.
7. Williams DGA, Ohnuma T, Krishnamoorthy V, Raghunathan K, Sulo S, Cassady BA, Hegazi R, Wischmeyer PE. Impact of early postoperative oral nutritional supplement utilization on clinical outcomes in colorectal surgery. Perioper Med (Lond). 2020 Oct 5;9:29. doi: 10.1186/s13741-020-00160-6.
8. Deutz NE, Ziegler TR, Matheson EM, Matarese LE, Tappenden KA, Baggs GE, Nelson JL, Luo M, Hegazi R, Jonnalagadda SS; NOURISH Study Group. Reduced mortality risk in malnourished hospitalized older adult patients with COPD treated with a specialized oral nutritional supplement: Sub-group analysis of the NOURISH study. Clin Nutr. 2020 Sep 4:S0261-5614(20)30447-7. doi: 10.1016/j.clnu.2020.08.031.
9. Arensberg MB, Richards J, Benjamin J, Kerr K, Hegazi R. Opportunities for Quality Improvement Programs (QIPs) in the Nutrition Support of Patients with Cancer. Healthcare (Basel). 2020 Jul 24;8(3):227. doi: 10.3390/healthcare8030227.
10. Mustad VA, Hegazi RA, Hustead DS, Budiman ES, Rueda R, Maki K, Powers M, Mechanick JI, Bergenstal RM, Hamdy O. Use of a diabetes-specific nutritional shake to replace a daily breakfast and afternoon snack improves glycemic responses assessed by continuous glucose monitoring in people with type 2 diabetes: a randomized clinical pilot study. BMJ Open Diabetes Res Care. 2020 Jul;8(1):e001258. doi: 10.1136/bmjdr-2020-001258.

11. Williams DGA, Ohnuma T, Krishnamoorthy V, Raghunathan K, Sulo S, Cassady BA, Hegazi R, Wischmeyer PE. Postoperative Utilization of Oral Nutritional Supplements in Surgical Patients in US Hospitals. *JPEN J Parenter Enteral Nutr.* 2020 Jun 3. doi: 10.1002/jpen.1862.
12. Ohnuma T, Krishnamoorthy V, Raghunathan K, Williams DGA, Sulo S, Hegazi R, Wischmeyer PE. Overcoming confounding by indication in nutrition research using electronic healthcare data. *Clin Nutr.* 2020 Apr;39(4):985-987. doi: 10.1016/j.clnu.2020.01.024.
13. Midyett K, Unger JR, Wright EE, Daniel TD, Kruger DF, Henry RR, Hegazi RA. A Pilot Study to Assess Clinical Utility and User Experience of Professional Continuous Glucose Monitoring Among People With Type 2 Diabetes. *Clin Diabetes.* 2019;37(1):57-64.
14. Sriram K, Sulo S, VanDerBosch G, Kozmic S, Sokolowski M, Summerfelt WT, Partridge J, Hegazi R, Nikolich S. Nutrition-Focused Quality Improvement Program Results in Significant Readmission and Length of Stay Reductions for Malnourished Surgical Patients. *JPEN J Parenter Enteral Nutr.* 2018 Aug;42(6):1093-1098.
15. Sriram K, Sulo S, VanDerBosch G, Partridge J, Feldstein J, Hegazi RA, Summerfelt WT. A Comprehensive Nutrition-Focused Quality Improvement Program Reduces 30-Day Readmissions and Length of Stay in Hospitalized Patients. *JPEN J Parenter Enteral Nutr.* 2017 Mar;41(3):384-391.
16. Han YY, Lai SR, Partridge JS, Wang MY, Sulo S, Tsao FW, Hegazi RA. The clinical and economic impact of the use of diabetes-specific enteral formula on ICU patients with type 2 diabetes. *Clin Nutr.* 2016 Oct 6. doi: 10.1016/j.clnu.2016.09.027. [Epub ahead of print]
17. McCullough PA, Fallahzadeh MK, Hegazi RM. Nutritional Deficiencies and Sarcopenia in Heart Failure: A Therapeutic Opportunity to Reduce Hospitalization and Death. *Rev Cardiovasc Med.* 2016;17(S1):S30-S39.
18. Deutz NE, Matheson EM, Matarese LE, Baggs GE, Nelson JL, Hegazi RA, Luo M, Tappenden KA, Ziegler TR; NOURISH Study Group.. Reply, Letter to the Editor - Supplemental and energy likely account for multi-ingredient supplementation in mitigating morbidity and mortality in compromised elderly malnourished patients. *Clin Nutr.* 2016 Aug;35(4):977-8.
19. Godamunne K, Zamroziewicz M, Luo M, Hegazi RA. Malnutrition and healthcare-acquired infections: the need for policy change in an evolving healthcare landscape. *J Hosp Infect.* 2016 May;93(1):9-11.
20. Deutz NE, Matheson EM, Matarese LE, Luo M, Baggs GE, Nelson JL, Hegazi RA, Tappenden KA, Ziegler TR; NOURISH Study Group. Readmission and mortality in malnourished, older, hospitalized adults treated with a specialized oral nutritional supplement: A randomized clinical trial. *Clin Nutr.* 2016 Jan 11. pii: S0261-5614(15)00348-9. doi: 10.1016/j.clnu.2015.12.010
21. Hegazi R, El-Gamal M, Abdel-Hady N, Hamdy O. Epidemiology and Risk factors of Type 2 Diabetes in Egypt. *Annals of Global Health.* DOI: <http://dx.doi.org/10.1016/j.aogh.2015.12.011>
22. Moura F, Salles J, Hamdy O, Coutinho W, Baptista DR, Benchimol A, Marchetti A, Hegazi RA, Mechanick JI. Transcultural Diabetes Nutrition Algorithm: Brazilian Application. *Nutrients.* 2015 Sep 1;7(9):7358-80.
23. Steiber A, Hegazi R, Herrera M, Zamor ML, Chimanya K, Pekcan AG, Redondo-Samin DC, Correia MI, Ojwang AA. Spotlight on Global Malnutrition: A Continuing Challenge in the 21st Century. *J Acad Nutr Diet.* 2015 Aug;115(8):1335-41.
24. Correia MI, Hegazi RA, Diaz-Pizarro Graf JI, Gomez-Morales G, Fuentes Gutiérrez C, Goldin MF, Navas A, Pinzón Espitia OL, Tavares GM. Addressing Disease-Related Malnutrition in Healthcare: A Latin American Perspective. *JPEN J Parenter Enteral Nutr.* 2015 Apr 16
25. Thornton Snider J, Jena AB, Linthicum MT, Hegazi RA, Partridge JS, LaVallee C, Lakdawalla DN, Wischmeyer PE. Effect of hospital use of oral nutritional supplementation on length of stay, hospital cost, and 30-day readmissions among Medicare patients with COPD. *Chest.* 2014 Oct 30. doi: 10.1378/chest.14-1368. [Epub ahead of print]
26. Evans DC, Hegazi RA. Immunonutrition in Critically Ill Patients: Does One Size Fit All? *JPEN J Parenter Enteral Nutr.* 2014 Oct 27. pii: 148607114557133. [Epub ahead of print]
27. Hamdy O, Ernst FR, Baumer D, Mustad V, Partidge J, Hegazi R. Differences in Resource

- Utilization Between Patients With Diabetes Receiving Glycemia-Targeted Specialized Nutrition vs Standard Nutrition Formulas in U.S. Hospitals. *JPEN J Parenter Enteral Nutr.* 2014 Sep 16. pii: 0148607114550315
28. Snider J, Linthicum M, Wu Y, LaVallee C, Lakdawalla D, Hegazi R, Matarese L. Economic Burden of Community-Based Disease-Associated Malnutrition in the United States. *JPEN J Parenter Enteral Nutr*, *In press*
 29. Hegazi R, Husted D, Evans D. Preoperative Standard Oral Nutrition Supplements vs Immunonutrition: Results of a Systematic Review and Meta-Analysis. *Journal of American College of Surgeons*, *In Press*.
 30. Hegazi R, Dewitt T. Enteral nutrition and immune modulation of acute pancreatitis. *World Journal of Gastroenterology*, *In Press*
 31. Correia MI, Hegazi RA, Higashiguchi T, Michel JP, Reddy BR, Tappenden KA, Uyar M, Muscaritoli M. Evidence-Based Recommendations for Addressing Malnutrition in Health Care: An Updated Strategy From the feedM.E. Global Study Group. *J Am Med Dir Assoc.* 2014; 15(8):544-550
 32. DeWitt T, Hegazi R. Nutrition in Pelvic Radiation Disease and Inflammatory Bowel Disease: Similarities and Differences. *Biomed Res Int.* 2014;2014:716579.
 33. Huynh DT, Devitt AA, Paule CL, Reddy BR, Marathe P, Hegazi RA, Rosales FJ. Effects of oral nutritional supplementation in the management of malnutrition in hospital and post-hospital discharged patients in India: a randomised, open-label, controlled trial. *J Hum Nutr Diet.*, *In Press*
 34. Nieto-Martínez R, Hamdy O, Marante D, Marulanda MI, Marchetti A, Hegazi RA, Mechanick JI. Transcultural diabetes nutrition algorithm (tDNA): Venezuelan application. *Nutrients.* 2014; 2;6(4):1333-63.
 35. Gougeon R, Sievenpiper JL, Jenkins D, Yale JF, Bell R, Després JP, Ransom TP, Camelon K, Dupre J, Kendall C, Hegazi RA, Marchetti A, Hamdy O, Mechanick JI. The transcultural diabetes nutrition algorithm: a Canadian perspective. *Int J Endocrinol.* 2014;2014:151068.
 36. Hamdy O, Marchetti A, Hegazi R, Mechanick J. The transcultural Diabetes Nutrition Algorithm (tDNA) Toolkit: Survey and Content Validation in the United States, Mexico, and Taiwan" *Diabetes Technol Ther.* 2014 Jun;16(6):378-84
 37. Hussein Z, Hamdy O, Chin Chia Y, Lin Lim S, Natkunam S, Hussain H, Tan M, Sulaiman R, Nisak B, Siew Swee Chee W, Marchetti A, Hegazi R, and Mechanick J. Transcultural Diabetes Nutrition Algorithm (tDNA): Malaysian Application. *International Journal of Endocrinology*, 2013;2013:67939
 38. Devitt A, Oliver J, Hegazi R, Mustad V. Glycemia Targeted Specialized Nutrition (GTSN) improves postprandial glycemia and GLP-1 with similar appetitive responses compared to a healthful whole food breakfast in persons with type 2 diabetes: a randomized, controlled trial. *Diabetes Research & Clinical Metabolism*, 2012 1: 20
 39. Hegazi R, Cockram M, Luo M. Misconceptions and truths for feeding patients in the intensive care unit: Case studies with practical nursing solutions. *Open Journal of Nursing*, 2012, 2, 327-331
 40. Vandewoude M, Alish C, Sauer A and Hegazi RA "Malnutrition-Sarcopenia Syndrome: is this the future of nutrition screening and assessment for older adults?" *Journal of Aging Research.*2012;2012:651570
 41. Inotai A, Nuijten M, Roth E, Hegazi R, Kaló Z. "Modeling the burden of disease associated malnutrition". *e-SPEN (electronic Journal of European Society for Clinical Nutrition and Metabolism)*: <http://www.e-spenjournal.org/>.
 42. Su HY, Tsang MW, Huang SY, Mechanick JI, Sheu WH, Marchetti A; Task Force for Development of Transcultural Algorithms in Nutrition and Diabetes. Transculturalization of a

- diabetes-specific nutrition algorithm: Asian application. *Curr Diab Rep.* 2012;12(2):213-9.
43. Mechanick JI, Marchetti AE, Apovian C, Benchimol AK, Bisschop PH, Bolio-Galvis A, Hegazi RA, Jenkins D, Mendoza E, Sanz ML, Sheu WH, Tatti P, Tsang MW, Hamdy O. Diabetes-Specific Nutrition Algorithm: A Transcultural Program to Optimize Diabetes and Prediabetes Care. *Curr Diab Rep.* 2012.
 44. O'Keefe S, Rolniak S, Raina A, Graham T, Hegazi R, Centa P. Enteral Feeding Patients with Gastric Outlet Obstruction. *Nutr Clin Pract.* 2012;27(1):76-81
 45. Hegazi RA, Wischmeyer P. Optimizing Enteral Nutrition for Critically Ill Patients: A Simple Data-Driven Formula. *Crit Care.* 2011 30;15(6):234.
 46. Sheikh S, Hegazi R, Kobayashi T, Onyiah J, Russo S, Matsuoka K, Sepulveda A, Li F, Otterbein L, Plevy S. An Anti-Inflammatory Role for Carbon Monoxide and Heme Oxygenase-1 in Chronic Th2-Mediated Murine Colitis. *J Immunol* 2011, *In Press*
 47. Hegazi R, Raina A, Graham T, Rolniak S, Centa P, Kandil H, O'Keefe S. Early Jejunal Feeding Initiation and Clinical Outcomes in Patients with Severe Acute Pancreatitis. *JPEN*, 2011;35:91-96
 48. Kushner R, Graham T, Hegazi R, Jensen G, Marik P, Merritt R. Optimizing Integration of Nutrition into Patient Care through Physician Leadership. *JPEN.* 2010;34(1 Supp):30S-39S
 49. Brill J, August D, DeLegge M, Hegazi R, Jensen G, Van Way C, McClave S. A Vision of the Future for Physician Practice in Nutrition. *JPEN.* 2010;34(1 Supp):86S-96S
 50. McClave S, Mechanick J, Bistrain B, Graham T, Hegazi R, Jensen G, Kushner R, Merritt R. What is the Significance of a Physician Shortage in Nutrition Medicine? *JPEN.* 2010;34 (Supp):7S-20S.
 51. Alish CJ, Garvey WT, Maki KC, Sacks GS, Hustead DS, Hegazi RA, Mustad VA. A diabetes-specific enteral formula improves glycemic variability in patients with type 2 diabetes. *Diabetes Technol Ther.* 2010;12(6):419-25
 52. Hegazi R, Strausbaugh K, Merritt R. Prebiotics and Enteral Feeding-Associated Diarrhea. *JPEN*, 2009;33;731-732
 53. Abd El-Atti S, Wasicek K, Mark S, Hegazi R. Use of Probiotics in the Management of Chemotherapy-Induced Diarrhea: A Case Study. *JPEN*, 2009;33:569-70.
 54. Hegazi R, O'Keefe S. Nutritional Immunomodulation of Acute Pancreatitis. *Current Gastroenterology Reports*, 2007;9(2):99-106
 55. Hegazy MA, Kotb SZ, Sakr H, El Dosoky E, Amer T, Hegazi RA, Farouk O. Preoperative isolated limb infusion of Doxorubicin and external irradiation for limb-threatening soft tissue sarcomas. *Ann Surg Oncol.* 2007;14:568-76.
 56. Barinas-Mitchell E, Kuller LE, Sutton-Tyrrell K, Hegazi R, Harper P, Mancino J, Kelley DE. Effect of Weight Loss and Nutritional Intervention on Arterial Stiffness in Type 2 Diabetes Mellitus. *Diabetes Care.* 2006;29:2218-22.
 57. O'Keefe S, Hegazi R. Nutritional Support in Acute Pancreatitis. *Gastroenterology & Hepatology Annual Review* 2006.
 58. Hegazi RA, Saad R, Mady H, O'Keefe S, Kandil HM. Dietary Fatty Acids Modulate Chronic Colitis, Colitis-Associated Colon Neoplasia and COX-2 Expression in IL-10 KO Mice. *Nutrition* 2006;22(3):275-82.
 59. Hegazi RA, Rao K, Mayle A, Sepulveda A, Otterbein L, Plevy S. Carbon Monoxide Ameliorates Chronic Murine Colitis Through a Heme Oxygenase-1 Dependent Pathway. *J Exp Med.* 2005;202(12):1703-13
 60. Meier CB, Hegazi RA, Aisenberg J, Legnani PE, Nilubol N, Cobrin GM, Ellozy SH, Duerr R, Gorfine SR, Bauer JJ, Sachar DB, Plevy SE. Innate Immune Receptor Polymorphisms in Pouchitis: Is NOD2/CARD15 a Susceptibility Factor? *Inflamm Bowel Dis.* 2005;11:965-71

61. Regueiro M, Kip KE, Cheung O, Hegazi RA, Plevy S. Cigarette Smoking and Age of Diagnosis of Inflammatory Bowel Disease. *Inflammatory Bowel Diseases* 2005;11(1):42-47.
62. Hegazy MA, Hegazi RA, Elshafei MA, Setit AE, Elshamy MR, Eltatoongy M, Halim AA. Neoadjuvant chemotherapy versus primary surgery in advanced ovarian carcinoma. *World J Surg Oncol.* 2005;31;3:57.
63. Xiong H, Zhu C, Li F, Hegazi R, He K, Babyatsky M, Plevy SE. Inhibition of Interleukin-12 p40 Transcription by Nitric Oxide in Murine Macrophages and Dendritic Cells. *JBC* 2004; 12;279(11):10776-83.
64. Aisenberg J, Legnani PE, Ellozy S, Cobrin GM, Nilubol N, Hegazi RA, Yager J, Bodian C, Gorfine SR, Bauer JJ, Plevy SE, Sachar DB. Are pANCA, ASCA, or Cytokine Gene Polymorphisms Associated with Pouchitis? Long-term Follow-up in 102 Ulcerative Colitis Patients. *American Journal of Gastroenterology, Am J Gastroenterol.* 2004; 99(3):432-41
65. Hegazi RA, Sutton-Tyrrell K, Evans RW, Kuller LH, Belle S, Yamamoto M, Edmundowicz D, Kelley DE. Relationship of Adiposity to Subclinical Atherosclerosis in Obese Patients with Type 2 Diabetes Mellitus. *Obesity Research* 2003;11(12):1597-605.
66. Kelley DE, McKolanis T, Hegazi RA, Kuller LH, Satish KC. Fatty Liver in Type 2 Diabetes Mellitus: Relationship with regional adiposity, fatty acids and insulin resistance. *Am J Physiol Endocrinol Metab.* 2003; 285: E906–916.
67. Hegazi RA, Mady HH, Melhem MF, Sepulveda A, Mohi M, Kandil HM. Celecoxib and Rofecoxib Potentiate Chronic Colitis and Premalignant Changes in Interleukin 10 Knockout Mice. *Inflammatory Bowel Diseases* 2003;9(4):230-236.
68. Osfor MM, el-Dessouky SA, el-Sayed A, Higazy RA. Relationship between environmental pollution in Manzala Lake and health profile of fishermen. *Nahrung.* 1998;42(1):42-5

PATENTS

-Amy L. Rhine-Pallas, Robert J. Padley, Brett M. Hickman, Clifford Bleustein, Refaat A. Hegazi, Sudarshan Hebbar, David K. Spindell, Paul Audhya. Method And System For Managing Patient Healthcare. Patent # 8930222

-Jeffrey L. Nelson, Anne C. Voss, Maria G. Baggs, Charles L. Paule, Refaat A. Hegazi, Fabrizio Suarez, Gary Fanjiang. Combination of beta-hydroxy-beta-methylbutyrate, arginine and glutamine for use in treating diabetic ulcers. Patent # 20150133548 & EP2802322A1

PRESENTATIONS AT SCIENTIFIC CONFERENCES

-Should Hand Grip Strength be included in GLIM Diagnostic Criteria? Findings of a Sub-analysis of NOURISH trial. ESPEN Congress, September 2021

-Demonstrating the value of nutrition in improving patient outcomes and reducing costs across the continuum of care. Canadian Nutrition Society, May 2020.

-Perioperative Nutrition within ERAS: Evidence and Guidelines. American College of Perioperative Medicine, Feb 2020.

-Impact of nutrition and muscle in aging and polymorbidity. ESPEN Congress on Clinical Nutrition & Metabolism, September 2019

-Use of a diabetes-specific nutritional shake to replace a daily breakfast and afternoon snack improves glycemic responses assessed by continuous glucose monitoring in patients with T2D diabetes. ASPEN Clinical Nutrition Week, March 2019

- Readmission and mortality in malnourished, older, hospitalized adults treated with a specialized oral nutritional supplement: A randomized clinical trial. ASPEN Clinical Nutrition Week, February 2016
- A Rapid, Comprehensive Oral Nutritional Supplement Quality Improvement Program Reduces 30-day Readmission in Malnourished Hospitalized Patients. ASPEN Clinical Nutrition Week, February 2016
- Pilot Study of a Peptide-Based Enteral Formula versus a Polymeric Enteral Formula in Critically Ill Patients. ASPEN Clinical Nutrition Week, January 2015
- Clinical and Economic Effects of the Use of Glycemia-Targeted Specialized Tube Feeding Formulas Among Patients with Diabetes in U.S. Hospitals. ASPEN Clinical Nutrition Week, January 2014. "Abstract of Distinction"
- Appetitive Response of a Glycemia-Targeted Specialized-Nutrition Breakfast in People with Type 2 Diabetes. ASPEN Clinical Nutrition Week, January 2014.
- Prediabetes: the importance of approach and diagnosis. FELANPE meeting, Panama, October, 2012.
- Clinical application of diabetes specific nutrition. FELANPE meeting, Panama, October, 2012.
- The role of immune modulating nutrition in the management of critically ill patients. FELANPE meeting, Panama, October, 2012.
- The role of nutrition in the critically ill and surgical patients. Internal Medicine Grand Round, East Carolina University School of Medicine. April, 2012
- Malnutrition Epidemic and its Impact on Outcomes. Meet The Nutrition Expert at A.S.P.E.N 2012 meeting, Orlando, FL.
- Malnutrition Sarcopenia Syndrome: The Role of Nutrition Therapy. Presented at A.S.P.E.N 2012 meeting, Orlando, FL.
- Malnutrition and Health Care Around the World: Concealed Costs, Potential Savings. 2nd Hospital Nutrition State of the Art Summit, Manila, Philippines, 2011
- Pathophysiology & Metabolic Effects of Wounds. The 21st conference of the European Wound Management Association, Brussels, Belgium, 2011.
- The role of nutrition intervention and prebiotics in hospitalized patients. African Middle East Association of Gastroenterology, Cairo, Egypt 2010.

- Nutritional therapy, where is the guide. Nutrition Support team meeting, Vanderbilt University Medical Center. October, 2009
- Nutrition therapy and clinical outcome: an evolving science. McMaster University Hospital, Hamilton, Ontario, Canada, October 2009.
- Principles of nutritional assessment and enteral and parenteral nutritional support. Presented to the Gastroenterology Conference, Ohio State University Medical Center, September, 2009
- How to Organize and Manage a Modern-Day Nutrition Support Team, Workshop at the Clinical Nutrition Week, Neo Orleans, February 2009.
- Probiotics and the GI tract: Myths and Facts, GI Conference, Metro Health Medical Center, Cleveland OH, November 2008
- Nourished or Malnourished: Methods of Nutritional Assessment: Medical Grand Round, Shadyside Hospital, University of Pittsburgh Medical Center, April 2008
- Effect of a Nasal Tube Retention Device (AMT Bridle™) on Frequency of Nasojejunal Feeding Tube Displacement. Clinical Nutrition Week, Poster & Oral Presentation, 2008

- Early Jejunal Feeding Initiation and Optimization of Feeding Goals Improve Clinical Outcomes in Patients with Severe Acute Pancreatitis. DDW 2008, Oral Presentation
- Assessment of Relative Pancreatic and Systemic Cytokine Responses in Patients with Severe Acute Pancreatitis. DDW 2008, poster presentation.
- Nutritional Administration Risks and Decision Making Process. Morbidity and Mortality Grand Round, Shadyside Hospital, Pittsburgh, October 2007.
- Albumin, prealbumin or transferrin: what is the best index of nutritional status? Nutrition Grand Round, University of Pittsburgh, February 2007.
- An Update from the ASPEN 2007 meeting, Nutrition Journal Club, University of Pittsburgh, January 2007.
- Immunomodulatory effects of Probiotics in pouchitis: Where is the evidence? Nutrition Journal Club, University of Pittsburgh. August, 2006.
- Immunomodulatory effects of fish oil in IBD. Nutrition Journal Club, University of Pittsburgh. July, 2006
- Immuno-biological effects of probiotics on the intestinal epithelial cells. Nutrition Journal Club, University of Pittsburgh. June, 2006
- Nutritional Assessment. Nutrition Journal Club. Division of Gastroenterology, Hepatology & Nutrition, Department of Medicine, University of Pittsburgh. May, 2006
- Immunomodulatory Role of Probiotics in Intestinal Inflammation. Gastroenterology Research Conference, University of Pittsburgh, 2006.
- An Anti-inflammatory Role For Heme- Oxygenase-1 In IL-12 p40 Expression And Th1-Mediated Murine Colitis. Signaling Club, University of Pittsburgh, 2005.
- Pancreatic Cytokine Secretion in Severe Acute Pancreatitis. Joint Meeting of the American Pancreatic Association/International Association of Pancreatology. clinical poster of distinction Chicago, IL 2006.
- An anti-inflammatory role for the heme oxygenase-1 pathway in chronic Th2-mediated murine colitis. Oral Presentation, Digestive Disease Week 2006, Los Angeles, CA.
- An anti-inflammatory role for heme oxygenase-1 and carbon monoxide in T-helper-1 (Th1)-mediated murine colitis. Oral Presentation, Fourth Annual Advances in Inflammatory Bowel Diseases Conference, Miami, FL, 2005 .
- An anti-inflammatory role for heme oxygenase-1 in IL-12 p40 expression and T-helper-1 (Th1)-mediated murine colitis. Oral Presentation, Digestive Disease Week 2005, Chicago, IL.
- Carbon Monoxide Ameliorates Colitis in T-Cell Receptor- α (TCR α) Deficient Mice. Poster Presentation, Digestive Disease Week, May 2004, New Orleans.
- Carbon Monoxide Antagonizes Interferon- Signaling in Murine Macrophages and Ameliorates Th1-Mediated Murine Enterocolitis. Poster presentation, 12th International Congress of Immunology and 4th Annual Conference of Federation of Clinical Immunologist Society, July 2004, Montreal, Canada.
- Immunosuppressive effects of carbon monoxide in IL-10 deficient macrophages. Oral Presentation, Digestive Disease Week, May 2003, Orlando, FL.
- Nutritional Assessment of Mentally Ill Persons Living in the Community. Poster Presentation, American Psychiatric Association Annual Meeting, May 2002, Philadelphia, PA.
- COX-2 Inhibitors Exacerbate Chronic Colitis and Pre-Malignant Changes in IL-10 Knockout Mice. Poster Presentation, Proceedings of American Association for Cancer Research; March, 2002.

- Metabolic correlates of subclinical vascular disease in type 2 diabetics. Poster Presentation, American Diabetes Association Annual Meeting, June 2001, Philadelphia, PA.

EDUCATION ACTIVITIES

1. Courses Taught:

- MSII Students, School of Medicine, University of Pittsburgh: 2006-2009
Mucosal immunology
Nutritional Assessment
Methods of Nutritional Therapy
Nutritional management of obesity
- MSIV-MSVI Students, Faculty of Medicine, Mansoura University 1992-1996
Principles of Occupational Medicine
Principles of Medical Biostatistics
- Total Nutrition Therapy course: Edited and taught a course on the principles of clinical nutrition to physicians and registered dietitians at:
- Russia 2009
 - Gulf 2010
 - China 2011
- Critical Care Total Nutritional Therapy: edited and taught a course of the principles of critical care nutrition to physicians and registered dietitians at:
- Latin American countries 2012
 - Spain 2013
 - UAE 2013
- Diabetes Total Nutrition Therapy: edited and taught a course on the principles of nutritional management of people with diabetes and prediabetes to physicians registered dietitians at:
- Saudi 2009
 - Turkey 2010
 - Philippines 2010
 - China 2011

2. Supervision of Graduate Students and Fellows:

- Amit Raina, MD, Gastrointestinal Division, Department of Medicine, University of Pittsburgh Medical Center: 2007-2008
- Mohamed Elgamal, MD, Department of Toxicology, Faculty of Medicine, Mansoura University 2015-Present

RESEARCH GRANT FUNDING

1. Immunomodulatory effects of carbon monoxide and hemoxygenase-1 in mice models of IBD. 2004-2006 Research Fellowship grant by the Crohn's and Colitis Foundation of America. Role includes responsibility for designing and performing the proposed studies of the project (100% of time).
2. Effects of probiotics on the colitis-associated colon cancer in IL-10 knockout mice. 2002-2004 Research Fellowship grant awarded by the Cancer Research and Prevention Foundation. Role

included responsibility for designing and performing the proposed studies of the project (100% of time).

BOARD OF DIRECTORS MEMBERSHIP

-American Society for Nutrition/National Board of Physician Nutrition Specialists:

Board of Directors member

<http://nbpns.org/about/nbpns-board-of-directors/>

EDITOR OR REVIEWER OF SCIENTIFIC OR PROFESSIONAL JOURNAL

Reviewer:

New England Journal of Medicine

Journal of Parenteral and Enteral Nutrition

Nutrition in Clinical Practice

Nutrients

Journal of Clinical Medicine

Medicine

World Journal of Gastroenterology

Editor:

Canadian Journal of Nutrition

http://canadianjournalofnutrition.ca/editorial_team/445/

Associate Editor for Clinical Nutrition:

Frontiers in Nutrition

<https://loop.frontiersin.org/people/1260443/overview>