

## Gastroenterology, Hepatology and Nutrition



Listed from left to right. Front: Jaya B. Punati, Wallace V. Crandall, Hayat M. Mousa Middle: Jane P. Balint, Steven H. Erdman, Carol J. Potter, Jolanda M. White, John Russo. Back: Carlo DiLorenzo, Tom K. Lin, John A. Barnard Not pictured: Frederick W. Woodley.

### Staff Physicians And Faculty



Carlo Di Lorenzo, MD, Chief

Jane P. Balint, MD

John A. Barnard, MD

Wallace V. Crandall, MD

Steven H. Erdman, MD

Tom K. Lin, MD

Hayat M. Mousa, MD

Carol J. Potter, MD

Jaya B. Punati, MD

John Russo, MD

Jolanda M. White, MD

Frederick W. Woodley, PhD

*The clinical mission of the Division of Gastroenterology, Hepatology and Nutrition is to provide expert consultation to referring physicians on a broad range of gastrointestinal, liver and nutritional problems and to provide ongoing care for children with complex disorders of the gastrointestinal system. The division strives for excellence in clinical care, research, and teaching and our physician scientists are committed to creation of new knowledge in our discipline.*

*Carlo Di Lorenzo, MD, Division Chief, is one of the nation's premier experts in pediatric gastrointestinal motility disorders and specializes in the evaluation and management of pediatric gastrointestinal motility disturbances.*

*In addition to motility, the staff within the division has special expertise in the diagnosis and management of inflammatory bowel diseases, short bowel syndrome/intestinal failure, polyposis disorders and liver diseases.*

*The division offers a multidisciplinary team approach to various disorders including inflammatory bowel diseases, functional GI disorders and short bowel in infants and children. These teams include gastroenterologists, PNPs, social workers, surgeons, nutritionists and developmental psychologists.*

*The division has a long history of contributions to scientific laboratory, clinical and translational research, and continues to be on the cutting edge of research in a broad array of areas. Some of the division's current research investigations include:*

- *The design of new approaches to prevent and treat tumor progression and metastasis*
- *The effect of stress and genetics on clinical activity in Crohn's disease*
- *The use of Multichannel Intraluminal Impedance (MII) combined with pH monitoring to collect information regarding acid and non-acid reflux in children*
- *The evaluation of the histopathologic basis for disordered bowel function*
- *The investigation of distribution of mast cells in the ileum and colon of children with Crohn's disease and irritable bowel syndrome*
- *The effect of novel therapeutic agents on motility and inflammatory bowel disorders*
- *The benefit of probiotic agents to prevent long-term consequences of intercurrent bacterial intestinal infections*
- *The clinical application of double balloon endoscopy in pediatric gastroenterology*

*These research studies provide the patients at Nationwide Children's Hospital with access to the newest diagnostic and treatment protocols available.*

*This past year the division was actively involved in training five gastroenterology fellows, the next generation of physicians and physician scientists in gastroenterology. The Clinical Fellowship Program was reviewed by the ACGME in 2007 and received re-accreditation without citations. The division offers the only one year fellowship in motility in the country – highly specialized training in a subspecialty of gastroenterology. As part of the Stecker Scholar program at Nationwide Children's Hospital, every year the division provides opportunities for collaborations to physicians from the University of Amsterdam, one of Europe's leaders in pediatric gastroenterology. In 2007, the division was selected by the ANMS as one of the only two centers of excellence in the country for specialized training in pediatric gastrointestinal motility.*

### **Clinical, Teaching And Research Interests**

**Carlo Di Lorenzo, MD**, is Chief of the Division of Pediatric Gastroenterology at the Nationwide Children's Hospital and a Professor of Clinical Pediatrics at The Ohio State University. Dr. Di Lorenzo has co-authored the only book on pediatric gastrointestinal motility and has published more than 100 peer review original articles and 80 chapters, invited reviews and editorials. He serves on the Editorial Boards of the *Journal of Pediatric Gastroenterology, Hepatology and Nutrition* and *Neurogastroenterology and Motility*. He has functioned as a grant reviewer for the National Institutes of Health and as abstract reviewer for the AGA. Dr. Di Lorenzo has served on the Council of NASPGHAN. He currently serves on the AMS Clinical Practice Committee. Dr. Di Lorenzo currently chairs the Slide Pediatric Committee of the Rome III criteria, is Council member of the Functional Bowel Group, a member of the Subboard of Pediatric Gastroenterology of the American Board of Pediatrics and a member of the Functional GI Disorders and Motility Disorders Working Group of the National Commission on Digestive Diseases (NCDD). Dr. Di Lorenzo was named among the "Best Doctors in America" in 2007.

**Jane P. Balint, MD**, leads the Intestinal Support Service and is Medical Director of the Nutrition Support Service and Clinical Nutrition at Nationwide Children's Hospital. She is a Clinical Associate Professor of Pediatrics at The Ohio State University College of Medicine. Her clinical interest is in the care of children with short bowel syndrome and other forms of intestinal failure. Dr. Balint was named among the "Best Doctors in America" in 2007.

**John A. Barnard, MD**, is President of The Research Institute at Nationwide Children's Hospital and Vice-Chair for Research in the Department of Pediatrics. He is a Professor of Pediatrics at The Ohio State University College of Medicine. Dr. Barnard's National Institutes of Health-funded research program focuses on regulation of intestinal epithelial growth by transforming growth factor beta. Dr. Barnard is President of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition and was named among the "Best Doctors in America" in 2007.

**Wallace V. Crandall, MD**, is Director of the Center for Pediatric and Adolescent Inflammatory Bowel Disease at Nationwide Children's Hospital and an Associate Professor of Clinical Pediatrics at The Ohio State University College of Medicine. An expert in pediatric inflammatory bowel disease (IBD), he has

a number of active research projects in IBD and has published extensively in this area. An active member of the Crohn's and Colitis Foundation of America (CCFA), Dr. Crandall has served at both the regional and national levels of CCFA as Chair of the CCFA Chapter Medical Advisory Committee of central Ohio, a member of the National Pediatric Education committee and as a member of national CCFA working groups. He is an advisor to the national Pediatric IBD Network for Research and Improvement (PIBDNet) and serves as the Chair of the PIBDNet Quality Improvement Measurement Committee. He is also a member of the Inflammatory Bowel Disease Committee of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition, and is Co-Chair of their Quality Improvement Task Force. Dr. Crandall is the Associate Director of the Pediatric Gastroenterology Fellowship Training Program at Nationwide Children's Hospital. He was again named among the "Best Doctors in America" in 2007.

**Steven H. Erdman, MD**, is the Director of the Pediatric Gastroenterology Fellowship Program and supervises all educational activities for the division. He is also an Associate Professor of Clinical Pediatrics at The Ohio State University College of Medicine. His clinical and research interests are in the area of hereditary colorectal cancer and the polyposis syndromes and is one of the first pediatric gastroenterologists in North America to utilize double balloon enteroscopy in the treatment of children with small intestinal disease. He is an elected member of the Executive Council of the Collaborative Group of the Americas on Inherited Colorectal Cancer and serves on the International Committee of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition. Dr. Erdman was named among the "Best Doctors in America" in 2007.

**Tom K. Lin, MD**, is an attending physician in the Division of Gastroenterology, Hepatology and Nutrition at Nationwide Children's Hospital and an Assistant Professor of Clinical Pediatrics at The Ohio State University College of Medicine. His primary clinical interests include diagnostic/therapeutic endoscopic procedures that provide state-of-the-art care for diseases that affect children. This includes endoscopic retrograde cholangio pancreatography (ERCP) to treat children for a variety of biliary diseases. Dr. Lin's additional interests include inflammatory bowel disease.

**Hayat M. Mousa, MD**, is Medical Director of the Center for Advanced Research in Neuromuscular Gastrointestinal Disorders (CARING). She is also the Director of the Advanced Training in Gastrointestinal Motility and Functional Disorders Fellowship. She is an Associate Professor of Clinical Pediatrics at The Ohio State University College of Medicine. Dr. Mousa has rather unique expertise in the use of impedance in children with swallowing and feeding disorders. She has an open prospective trial investigating the changes in swallowing after fundoplication. Dr. Mousa is interested in gastrointestinal motility disorders and functional disorders. She has active trials studying acid and non-acid gastroesophageal reflux in children and she has published several articles about the association between gastroesophageal reflux disease and apnea and the effect of fundoplication on the gastric sensory and motor functions. She is currently conducting a trial studying the health consequences of sleep disorders in obese children and its association with gastroesophageal reflux disease. Dr. Mousa also is interested in the evaluation and management of children with constipation. She has published about the value of colonic motility in predicting the outcome of cecostomy placement in patients with severe constipation and is currently conducting prospective studies to evaluate the difference between constipated children with or without lower urinary symptoms and comparing the ambulatory and stationary colonic manometry techniques.

**Carol J. Potter, MD**, is an attending physician in the Division of Gastroenterology, Hepatology and Nutrition at Nationwide Children's Hospital and an Associate Professor of Clinical Pediatrics at The Ohio State University College of Medicine. Dr. Potter specializes in liver disease. In addition to her clinical and teaching duties, she serves as the Gastrointestinal Medical Advisor for the national and international Cornelia de Lange Syndrome foundations. She also serves on the Nationwide Children's Hospital Institutional Review Board.

**Jaya B. Punati, MD**, is an attending physician in the Division of Gastroenterology, Hepatology and Nutrition at Nationwide Children's Hospital and an Assistant Professor of Clinical Pediatrics at The Ohio State University College of Medicine. Her research interests include intestinal mast cells in patients with motility disorders and her clinical interests include patients with abdominal pain and motility disorders. Dr. Punati has presented her work at international gastroenterology conferences.

**John Russo, MD**, is an attending physician in the Division of Gastroenterology, Hepatology and Nutrition at Nationwide Children's Hospital and an Assistant Professor of Clinical Pediatrics at The Ohio State University College of Medicine. Dr. Russo's previous research focused on epithelial wound healing. Dr. Russo's current clinical interests include all types of general gastroenterology, including inflammatory bowel disease and celiac disease.

**Jolanda M. White, MD**, is an attending physician in the Division of Gastroenterology, Hepatology and Nutrition at Nationwide Children's Hospital and an Assistant Professor of Clinical Pediatrics at The Ohio State University College of Medicine. Dr. White's clinical interests involve all aspects of pediatric gastroenterology, with a special interest in nutritional disorders.

**Frederick W. Woodley, PhD**, is currently a senior research scientist at Nationwide Children's Hospital where he has a clinical appointment in the Division of Gastroenterology, Hepatology and Nutrition and research appointments in the Centers for Healthy Weight and Nutrition and Advanced Research in Neuromuscular Gastrointestinal Disorders (CARING). He is a Clinical Assistant Professor of Pediatrics at The Ohio State University College of Medicine. Dr. Woodley holds a PhD in molecular and cellular biology from the Ohio University. His clinical responsibility at Nationwide Children's Hospital is for the analysis of combined pH/multichannel intraluminal impedance (pH/MII) tracings for all pH/MII studies conducted in the GI division. His research endeavors involve studies aimed at: 1) elucidating the effect of formula feeds on acid clearance mechanisms in infants, 2) assessing the clinical importance of "pH only" acid gastroesophageal reflux events in infants, 3) elucidating mechanism(s) regulating the release of bicarbonate and protein into the esophageal lumen in response to gastric acid exposure and swallow-induced peristalsis, 4) elucidating the effects of different feeding methods on volume and chemical clearance of acid gastroesophageal reflux, and 5) characterizing acid and non-acid reflux in children with cystic fibrosis.

### **Research Funding (Over \$50,000)**

**John A. Barnard, MD**  
*TGF-beta Regulation of Intestinal Epithelial Cells*, National Institute of Diabetes and Digestive and Kidney Diseases

**Wallace V. Crandall, MD**  
*Crohn's Disease Treatment Study*, Anonymous

*Industry Sponsor*, Anonymous

## Publications

Allen CE, Richards J, Muthusamy N, Auer H, Liu Y, Robinson ML, **Barnard JA**, Wu L-C. Disruption of ZAS3 in Mice Alters NF- $\kappa$ B and AP-1 DNA Binding and T-Cell Development. *Gene Expression* 14: 83-100, 2007.

Amosu MO, **Mousa HM**. An unusual case of genitourinary complication in ulcerative colitis. *Digestive Diseases Sciences* 52(11): 2930-3, 2007.

Amosu MO, **Mousa HM**, Luquette M. Clinical Challenges and Images in GI. Microvillous inclusion disease. *Gastroenterology* 132(4): 1225, 1639, 2007.

Campo JV, Bridge J, Lucas A, Savorelli S, Walker L, **Di Lorenzo C**, Iyengar S, Brent DA. Physical and emotional health of mothers of youth with functional abdominal pain. *Archives of Pediatrics & Adolescent Medicine* 161(2): 131-7, 2007.

**Crandall WV**, Halterman TE, Mackner LM. Anxiety and Pain Symptoms in Children with Inflammatory Bowel Disease and Functional Gastrointestinal Disorders Undergoing Colonoscopy. *Journal of Pediatric Gastroenterology and Nutrition* 44(1): 63-7, 2007.

**Erdman SH**. Pediatric adenomatous polyposis syndromes: an update. *Current Gastroenterology Reports* 9(3): 237-44, 2007.

Erdman TS, **Erdman SH**. The Gastrointestinal System. In: *Mosby's Neonatal Nursing Online Course Manual*. (Altimier L, ed.) Elsevier, Inc., 2007.

Hyams J, **Crandall W**, Kugathasan S, Griffiths A, Olson A, Johanss J, Liu G, Travers S, Heuschkel R, Markowitz J, Cohen S, Winter H, Veereman-Wauters G, Ferry G, Baldassano R; REACH Study Group. Induction and maintenance infliximab therapy for the treatment of moderate-to-severe Crohn's disease in children. *Gastroenterology* 132(3): 863-73; quiz 1165-6, 2007.

Khan S, Campo J, Bridge JA, Chiappetta LC, Wald A, **Di Lorenzo C**. Long-term outcome of functional childhood constipation. *Digestive Diseases Sciences* 52(1): 64-9, 2007.

Kugathasan S, Nebel J, Skelton JA, Markowitz J, Keljo D, Rosh J, LeLeiko N, Mack D, Griffiths A, Bousvaros A, Evans J, Mezzoff A, Moyer S, Oliva-Hemker M, Otley A, Pfefferkorn M, **Crandall W**, Wyllie R, Hyams J, Wisconsin Pediatric Inflammatory Bowel Disease Alliance, Pediatric Inflammatory Bowel Disease Collaborative Research Group. Body mass index in children with newly diagnosed inflammatory bowel disease: observations from two multicenter North American inception cohorts. *Journal of Pediatrics* 151(5): 523-7, 2007.

Liem O, Benninga MA, **Mousa HM**, **Di Lorenzo C**. Novel and alternative therapies for childhood constipation. *Current Gastroenterology Reports* 9(3): 214-8, 2007.

Liem O, **Di Lorenzo C**, Taminiou AJM, **Mousa HM**, Benninga, MA. Current Treatment of Childhood Constipation. *Annales Nestle* 65: 73-79, 2007.

Mackner LM, **Crandall WV**. Psychological Factors Affecting Pediatric Inflammatory Bowel Disease. *Current Opinion in Pediatrics* 19(5): 548-52, 2007.

Saps M, **Di Lorenzo C**. Probiotics for abdominal pain disorders in children – safe to use but are they helpful? *Nature Clinical Practice Gastroenterology & Hepatology* 4(8): 430-1, 2007.

Stojanovski SD, Casavant MJ, **Mousa HM**, Baker P, Nahata MC. Atomoxetine-induced hepatitis in a child. *Clinical Toxicology (Phila)* 45(1): 51-5, 2007.

van den Berg MM, Hogan M, **Mousa HM**, **Di Lorenzo C**. Colonic manometry catheter placement with primary fluoroscopic guidance. *Digestive Diseases Sciences* 52(9): 2282-6, 2007.

Walker WA, Sherman P, Cohen M, **Barnard J**. State of pediatric gastroenterology, hepatology, and nutrition: 2006 and Beyond. *Gastroenterology* 132: 434-436, 2007.

**Woodley FW**, Fernandez S, **Mousa HM**. Diurnal variation in the chemical clearance of acid gastroesophageal reflux in infants. *Clinical Gastroenterology and Hepatology* 5(1): 37-43, 2007.

## Presentations and Teaching Activities

**Jane P. Balint, MD**

*Management Strategies in Intestinal Failure*, Visiting Professor, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, April 25, 2007

*Short Bowel Syndrome, Liver Disease and Failure*, 2007 Neonatal Conference, Columbus, Ohio, May 2, 2007

*Pediatric Issues*, 21st Annual Oley Consumer/Clinician Conference, Hyannis, Massachusetts, June 2007

**Wallace V. Crandall, MD**

*Meet the Professor, Pediatric IBD*, Digestive Disease Week, 108th Annual Meeting of the American Gastroenterological Association, Washington, D.C., May 2007

**Carlo Di Lorenzo, MD**

*How to Give a Great Talk*, Invited Speaker, 2007 NASPGHAN Academic Skill Workshop, New Orleans, Louisiana, January 12-13, 2007

*Gastrointestinal Disorders*, Invited Speaker, AAP Prep Course, Costa Mesa, California, March 3-7, 2007

*Keys to a Great Presentation and How to Write a Manuscript and a Grant Application*, Invited Speaker, FBG Fellow Conference, San Diego, California, March 23-25, 2007

*New Technologies in the Study of Pediatric Motility and Functional GI Disorders*, Invited Speaker, IFFGD Conference, Milwaukee, Wisconsin, April 12-15, 2007

*Motility Disorders in Children*, Invited Speaker, Meet the Professor Luncheon, Digestive Disease Week, Washington, D.C., May 20-24, 2007

*Visceral Hyperalgesia and Visceral Perception in Children*, Invited Speaker, Third International Symposium on Pediatric Gastroenterology, Montreal, Canada, June 14-15, 2007

*IBS, IBD, or Both?; Functional GI Disorders: Why Rome?; What to Do with the Constipated Child Who Does Not Get Better?; The Child Who Keeps Vomiting: GER, Rumination, Gastroparesis, Functional Abdominal Pain: The Genes, the Environment, the Early Life Events; New Technologies to Study Functional and Motility Disorders; and Placebos and Nocobes: Treatment of Motility Disorders*, 29th Annual Aspen Conference on Pediatric Gastrointestinal Disease, Aspen, Colorado, July 22 – 27, 2007

*Disturbi Funzionali Intestinali nel Bambino*, Invited Speaker, Meeting on Gestione terapeutica del paziente con disturbi cronici gastrointestinali, Rome, Italy, September 12-14, 2007

*Gastrointestinal Disorders*, Invited Speaker, AAP Prep Course, Philadelphia, Pennsylvania, September 15-19, 2007

*New Insights in Neurogastroenterology and Update on Functional and Motor Gastrointestinal Pediatric Disorders*, 28th Venezuelan Gastroenterology and 10th Pediatric Gastroenterology Meeting, Caracas, Venezuela, September 18-21, 2007

*Antroduodenal, Colonic and Anorectal Manometry and Rome III Criteria in Functional GI Disorders*, 4th European Paediatric GI Motility Meeting, London, England, October 4-6, 2007

*New Insights into Childhood Functional Abdominal Pain and Irritable Bowel Syndrome: A Multidisciplinary Approach*, Chair, National Institutes of Health Sponsored Symposium, Salt Lake City, Utah, October 24, 2007

*Dyspepsia and Gastroparesis and Motility Disorders*, Invited Speaker, Annual NASPGHAN Meeting, Salt Lake City, Utah, October 25-28, 2007

**Steven H. Erdman, MD**

*Genetic Counseling and Management Panel*, Participant, An Update on Colorectal Cancer Genetics, The Ohio State University Comprehensive Cancer Center/The James Cancer Hospital and Solove Research Institute, Columbus, Ohio, March 2, 2007

*The Polyposis Syndromes, An Update on Colorectal Cancer Genetics*, The Ohio State University Comprehensive Cancer Center/The James Cancer Hospital and Solove Research Institute, Columbus, Ohio, March 2, 2007

*Update on the Pediatric Polyp Syndromes*, Visiting Professor, Department of Pediatrics, University of West Virginia, Morgantown, West Virginia, March 28, 2007

*The Colonic Microbiota: Our 1012 Closest Friends*, Visiting Professor, Department of Pediatrics, Children's Hospital of the King's Daughters, Eastern Virginia Medical School, Norfolk, Virginia, September 13, 2007

*Polyps and Inherited Colorectal Cancer in Children*, Visiting Professor, Department of Pediatrics, Children's Hospital of the King's Daughters, Eastern Virginia Medical School, Norfolk, Virginia, September 13, 2007

*Cocktails, Capsules and Balloons: New Tools in the Small Intestine*, 11th Annual Meeting of the Collaborative Group of the Americas on Inherited Colorectal Cancer, La Jolla, California, October 21, 2007

*Polyposis Syndromes in Children: Morbidity, Mortality and Therapy*, Session Moderator, 11th Annual Meeting of the Collaborative Group of the Americas on Inherited Colorectal Cancer, La Jolla, California, October 22, 2007

**Hayat M. Mousa, MD**

*Intestinal Pseudoobstruction*, Invited Speaker, Pediatric Gastroenterology Congress, Mexico, Guadalajara, Mexico, May 31, 2007

*Classification and Epidemiology of Motility Disorders*, Invited Speaker, Pediatric Gastroenterology Congress, Mexico, Guadalajara, Mexico, June 1, 2007

*Infant Colic Like and Irritable Bowel Syndrome*, Invited Speaker, Pediatric Gastroenterology Congress, Mexico, Guadalajara, Mexico, June 2, 2007

*The Use of Impedance in Pediatric GERD*, Invited Speaker, AGMD 2007 Digestive Motility Symposium, Boston, Massachusetts, July 27-29, 2007

*Multichannel Intraluminal Impedance (MII) Work Group*, Chairperson, Round Table Discussion, North American Society for Pediatric Gastroenterology, Hepatology & Nutrition (NASPGHAN), October 26, 2007

*Intestinal Dysplasia and Hirschsprung's Disease*, Invited Speaker, National Pediatric Gastroenterology Congress in Mexico, Leon, Mexico, November 17, 2007

*Long-Term Outcome of Fundoplication*, Invited Speaker, National Pediatric Gastroenterology Congress in Mexico, Leon, Mexico, November 18, 2007

*New Insights in Gastroesophageal Reflux*, Invited Speaker, National Pediatric Gastroenterology Congress in Mexico, Leon, Mexico, November 18, 2007

**Frederick W. Woodley, PhD**

*Are Some 'pH Only' Events in Infants the Residuals of Previous 'Impedance-Detectable' Acid Gastroesophageal Reflux Events that Were Not Completely Cleared?*, 4th European Paediatric GI Motility Meeting, London, England, October 4-6, 2007

**Awards and Honors****Jane P. Balint, MD**

Listed, Best Doctors in America

Partners in Care, Partners in Hope, Family Advisory Council's Award for Excellence in Family-Centered Care, Nationwide Children's Hospital (2007)

**John A. Barnard, MD**

Listed, Best Doctors in America

Member, Gastrointestinal Cell and Developmental Biology Study Section, National Institutes of Health

President, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition

**Wallace V. Crandall, MD**

Listed, Best Doctors in America

**Carlo Di Lorenzo, MD**

Board Member, United Mitochondrial Disease Foundation

Chairman, Pediatric Slide Committee for the Rome III Initiative

Council Member, Functional Bowel Group (FBG)

Grant Reviewer, Trasher Research Fund

Invited Professor, PhD thesis for Dr. Maartje van Den Berg, Amsterdam, The Netherlands and Dr. Ilse Hoffman, Leuven, Belgium

Listed, Best Doctors in America

Member, Board for the "Small Intestine" section Faculty of 1000 Medicine

Member, Clinical Practice Committee of the American Motility Society

Member, Editorial Boards of *Journal of Pediatric Gastroenterology and Nutrition* and *Journal of Neurogastroenterology and Motility*

Member, Functional GI Disorders & Motility Disorders Working Group of the National Commission on Digestive Diseases (NCDD) of the NIH

Member, GI Working Group for "America's Best Children's Hospitals" for *U.S. News & World Report*

Member, Scientific Advisory Board (SAB) of the Children's Digestive Health and Nutrition Foundation (CDHNF)

Member, Scientific Advisory Board of the University of North Carolina (UNC) Center for Functional GI and Motility Disorders

Member, Sub-board of Pediatric Gastroenterology of the American Board of Pediatrics (ABP)

Organizer, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN) World Soccer Cup

Reviewer, International Foundation for Functional Gastrointestinal Disorders (IFFGD) Research Awards

**Steven H. Erdman, MD**

Executive Council (elected), Collaborative Group of the Americas on Inherited Colorectal Cancer

Head, Abstract Selection Committee, Annual Meeting of the Collaborative Group of the Americas on Inherited Colorectal Cancer

Listed, Best Doctors in America

Listed, Guide to America's Top Pediatricians, 4th ed.

Organizing Committee, 11th Annual Meeting of the Collaborative Group of the Americas on Inherited Colorectal Cancer

**Hayat M. Mousa, MD**

Listed, America's Top Physicians

Listed, Best Doctors in America

Listed, Global Directory of Who's Who

Listed, Who's Who in Medicine and Healthcare

Member, NASPGHAN Research Committee, October 2007- October 2010

**Carol J. Potter, MD**

Listed, Best Doctors in America

**Frederick W. Woodley, PhD**

Listed, Who's Who in America

**Fast Facts**

Inpatient Discharges: 646

Observation Discharges: 79

Average Length of Stay\*: 6.2

Average Daily Census\*: 10.9

Patient Days\*: 3,984

Total Surgical Procedures: 1,094

(includes NCH Main OR and NCH Surgery Center)

Gastroenterology Clinic: 7,688

Dublin Gastroenterology: 1,643

Northeast Gastroenterology: 1,354

Total GI Clinic Visits: 10,685

\*Excludes observation patients