

# Curriculum Vitae and Bibliography

## Ananya Das, MD, FACG, FASGE

### PRESENT AND RECENT POSITIONS

<b>Director</b> - Endoscopic Research, Division of Gastroenterology, Department of Internal Medicine, Mayo Clinic, Scottsdale, Arizona	2004 - 2010
<b>Co-Director</b> - Pancreas Clinic, Department of Internal Medicine, Mayo Clinic, Arizona	2007 - 2010
<b>Consultant</b> - Division of Gastroenterology and Hepatology, Department of Internal Medicine, Mayo Clinic, Scottsdale, Arizona	11/2004 – 3/2010
<b>Director</b> - Endoscopy, Division of Gastroenterology and Hepatology, Department of Internal Medicine, Mayo Clinic, Arizona	2007 – 3/2010
<b>Associate Chair (Research)</b> - Department of Internal Medicine, Mayo Clinic, Scottsdale, Arizona	1/2008 – 3/2010
<b>Professor of Medicine</b> - College of Medicine, Mayo Clinic	08/2008 – 3/2010
<b>Associate Editor, <i>Gastrointestinal Endoscopy</i></b>	2009-present
<b>Director, Arizona Center of Digestive Health (AzCDH)</b>	4/2010-

### EDUCATION

Silchar Medical College, India MB BS	1981 - 1987
Postgraduate Institute of Medical Education & Research, India Post-Grad, Internal Medicine	1988 - 1990
Sanjay Gandhi Post-Graduate Institute of Medical Sciences, India Post-Doc, Gastroenterology	1991 - 1993
Veteran's Affairs Medical Center Residency, Internal Medicine	1994 - 1996
State U of New York Health Science Ctr Stony Brook Residency, Internal Medicine	1994 - 1996
Veteran's Affairs Medical Center Clinical Fellowship, Gastroenterology	1996 - 1999
University Hospitals of Cleveland, Case Western Reserve University Clinical Fellowship, Gastroenterology	1996 - 1999
University Hospitals of Cleveland, Case Western Reserve University Fellowship, Advanced Endoscopy Fellow, Division of Gastroenterology	1999 - 2000
<b>Additional Education</b>	
Advanced Certificate Course in MATLAB Fundamentals and Programming Techniques and Image Processing Mathworks Training Services	2007

## BOARD CERTIFICATION(S)

### American Board of Internal Medicine

Internal Medicine	1996
Internal Medicine/Gastroenterology (recertified in 2008)	1998

## LICENSURE

Michigan	1996 - Present
Ohio	2002 - 2006
Arizona	2004 - Present

## HONORS/AWARDS

University Best Graduate Gold Medal, Stood First in Final MBBS - Gauhati University, India	1986
Best Resident - Department of Medicine, University Hospital, Stony Brook, New York	1994 - 1995
Winner of National Association Research Competition - American College of Physicians	1995
Winner, National Associate Research Competition - American College of Physicians	1996
Young Investigator Award - American Society of Gastrointestinal Endoscopy/American College of Gastroenterology	1997
Young Investigator Award - American Society of Gastrointestinal Endoscopy/American College of Gastroenterology	1998
Research Excellence in Gastroenterology & Liver Award	2003
(ACG) Clinical Research Award - American College of Gastroenterology	2006
(ASGE) Career development Award - American Society for Gastrointestinal Endoscopy	2006
ASGE Diversity Award - Digestive Disease Week	2007
America's Top Doctors - Gastroenterology - Castle Connolly Best Doctors in America	2007, 2008, 2009 2009

## PREVIOUS PROFESSIONAL POSITIONS AND MAJOR APPOINTMENTS

<b>Consultant Gastroenterologist</b> - PS Research Institute and Max Healthcare, New Delhi, India	2000 - 2002
<b>Assistant Professor of Medicine</b> - Case Western Reserve University, Cleveland, Ohio	2002 - 2004
<b>Attending Staff</b> - University Hospitals of Cleveland, Case Western Reserve University, Cleveland, Ohio	2002 - 2004
<b>Chief</b> - Louis Stokes VA Medical Center, Cleveland, OH, Cleveland, Ohio	2002 - 2004

<b>Senior Associate Consultant</b> - Division of Gastroenterology and Hepatology, Department of Internal Medicine, Mayo Clinic, Scottsdale, Arizona	2004 - 2007
<b>Assistant Professor of Medicine</b> - College of Medicine, Mayo Clinic	10/01/2005 - 07/31/2006
<b>Associate Professor of Medicine</b> - College of Medicine, Mayo Clinic	08/01/2006 - 07/31/2008

## **PROFESSIONAL & COMMUNITY MEMBERSHIPS, SOCIETIES AND SERVICES**

(\*indicates office held)

### **Professional Memberships & Services**

American College of Gastroenterology *Member	1996 - Present
American College of Physicians *Fellow	2001 - Present
American Gastroenterology Association *Member	1999 - Present
American Society for Gastrointestinal Endoscopy *Member	1999 - Present
*Fellow	2006 - Present
National Committee *Member	2006 - Present
Post-Graduate Education Committee	
Special Interest Group: Endoscopic Innovation *Member	2006 - Present
Special Interest Group: Endoscopic Ultrasonography *Member	2003 - Present
Strategy Planning Advisory Group *Member	2006
Training Committee/Post Graduate Education Committees *Member	2006 - Present
Case Western Reserve University Case Western Reserve University Medical School GI Nutrition Program Pancreatic and Biliary Section *Member	2002 - 2004
University Hospitals of Cleveland Division of Gastroenterology Education Committee *Member	2002 - 2004
Endoscopy Research Committee *Member	2002 - 2004
Louis Stokes VA Medical Center, Cleveland, OH	

Compensation and Pension Review *Examiner	2002 - 2004
Endoscopy Users Committee *Chair	1998 - 2002
Sedation Committee Quality Management *Member	2002 - 2004
Phoenix Society of Gastroenterology *Member	2004 - Present

**Journal Review & Editorial Activities**

American Journal of Gastroenterology Scientific Reviewer
Artificial Intelligence in Medical Sciences Scientific Reviewer
Digestive Diseases and Sciences Reviewer
Endoscopy Scientific Reviewer
Gastroenterology Scientific Reviewer
Gastrointestinal Endoscopy Scientific Reviewer Member Editorial Review Board
Journal of Clinical Gastroenterology Scientific Reviewer
Journal of Gastroenterology and Hepatology Scientific Reviewer
Journal of the American Medical Association Scientific Reviewer
Mayo Clinic Proceedings Scientific Reviewer
Pediatric Infectious Disease Journal Scientific Reviewer
World Journal of Surgery Scientific Reviewer

## EDUCATIONAL ACTIVITIES

### Teaching

EBME 602 course: Gastroenterology for Biomedical Engineers Course Faculty Case Western Reserve University Medical School Cleveland, Ohio	2003 - 2004
GI Physiology Course Course Faculty Case Western Reserve University Medical School Cleveland, Ohio	2004
EUS as an Adjunct to ERCP Course Faculty - Invited Presentation and Moderator Mayo Clinic in Scottsdale Winter Gastroenterology Meeting: Gastroenterology Linked to Endoscopy and Hepatology 2005 Scottsdale, Arizona	02/2005
Challenges in Endoscopic Practice Mayo Clinic in Scottsdale Winter Gastroenterology Meeting: Gastroenterology Linked to Endoscopy and Hepatology 2005 Scottsdale, Arizona	03/2005
EUS: Role in Management of Hepatocellular Carcinoma Invited Presentation ACG Governor/ASGE Best Practices 2006 Meeting	2006
Endoscopic Imaging in 2006 EUS and Beyond Course Faculty - Invited Presentation and Moderator Mayo Clinic Arizona Winter Gastroenterology Meeting Scottsdale, Arizona	02/2006
Barrett's Esophagus Course Faculty - Invited Presentation Clinical Review 2006 - A Primary Care and Internal Medicine Update Scottsdale, Arizona	04/2006
Applying Abdominal Pressure During Colonoscopy Mayo Clinic Educational DVD	4/2007
Challenges in Endoscopic Practice: Endoscopic Mucosal Resection Course Faculty - Invited Presentation and Moderator Mayo Clinic Arizona Winter Gastroenterology Meeting Scottsdale, Arizona	03/2007
EUS Staging of Luminal GI Malignancy Course Faculty - Invited Presentation Mayo Clinic EUS Course Rochester, Minnesota	07/2007
American Society for Gastrointestinal Endoscopy Fellows' Course Course Faculty Chicago, Illinois	08/2007
Healthcare Workers on the Move Course Faculty - Invited Presentation Narrative Matters Conference, George Washington University Washington, District of Columbia	09/2007
Mayo Clinic Endoscopy Live: Hands-on Course Course Faculty, Orlando, Florida	11/2007

Pancreatic Cystic Neoplasm: Management Strategies Course Faculty - Invited Presentation Mayo Clinic Arizona Winter Gastroenterology Meeting Scottsdale, Arizona	03/2008
Advances in Esophageal Therapies and Beyond Course Faculty - Interactive Educational Program Digestive Disease Week San Diego, California	5/2008
EUS Staging of Luminal GI Malignancy Course Faculty - Invited Presentation Mayo Clinic EUS Course Rochester, Minnesota	07/2008
American Society for Gastrointestinal Endoscopy Fellows' Course <b>Course Director</b> Chicago, Illinois	8/2008
Endoscopic Research Course Faculty - Invited Presentation The Michael V. Sivak Jr. Symposium - A Celebration of Endoscopy Cleveland, Ohio	09/2008
<b>EndoFest 2008</b> Chinese National Congress of Gastroenterology Beijing, China Invited speaker and Live Endoscopy workshop Faculty	10/2008
Mayo Clinic Endoscopy Live: Hands-on Course <b>Course co-Director</b> , Orlando, Florida	11/2008
Pancreatic Mass: Management Strategies Course Faculty - Invited Presentation Mayo Clinic Arizona Winter Gastroenterology Meeting Scottsdale, Arizona	3/2009
ASGE Course Enteroscopy: Exploring the Depths Course Faculty Chicago, IL	03/2009
Mayo Clinic CME Course : Update In Gastroenterology Chicago, IL Course Faculty	05/2009
American Society for Gastrointestinal Endoscopy Fellows' Course <b>Course Director</b> Chicago, Illinois	08/2009
Phoenix Society of Gastroenterology- Esophageal Update Phoenix, AZ Invited Speaker	9/2009
Mayo Clinic Alumni Course Scottsdale, AZ Course faculty	10/2009

Mayo Clinic Endoscopy Live: Hands-on Course <b>Course co-Director</b> , Orlando, Florida	11/2009
St Joseph's Hospital Esophageal Symposium Phoenix, AZ Invited Speaker	11/2009
Indian Society of Gastroenterology- Golden Jubilee Annual Conference & Live endoscopy Course Kolkata, India Invited Faculty & speaker	12/2009
Pancreatic Cancer : Role of EUS Course Faculty - Invited Presentation Mayo Clinic Arizona Winter Gastroenterology Meeting Scottsdale, Arizona	02/2010
ASGE Master Series GI Stents: Expanding Indications and Opening New Horizons Chicago, IL Invited Course Faculty	03/2010
Eso World Conference Course Faculty Cost-effectiveness of Barrett's ablation Boston, MA	7/2010
American Society for Gastrointestinal Endoscopy Fellows' Course 2010 Course Faculty Chicago, Illinois	8/2010

### **Mentorship**

Agarwal, Deepak (Medical Resident) <b>Description:</b> Mentored on a project on cost-effectiveness of intravenous albumin in patients with spontaneous bacterial peritonitis. <b>Outcomes:</b> Presented in DDW as an oral presentation 2003.	2002 - 2003
Singh, Pankaj (Fellow) <b>Description:</b> Advanced Endoscopy Fellow, Mentored training in advanced endoscopy and training in endoscopic ultrasonography. Mentored in research projects on meta-analysis of pancreatic stent placement in prevention of post-ERCP pancreatitis. <b>Current Status:</b> Dr. Singh is currently the Chief of Endoscopy at Central VA Hospital, Temple, TX <b>Outcomes:</b> (Published in GI Endoscopy 2004). Dr. Singh is currently an Assistant Professor at Texas A & M University, Temple TX	2002 - 2003
Sigmundsson, Helgi (Fellow) <b>Description:</b> Gastroenterology Fellow, Mentored in a research project on inter-observer variations in wireless capsule endoscopy. <b>Outcomes:</b> Presented in DDW 2004.	2003
Novesky, Ilche (Medical Resident) <b>Description:</b> Mentored on a project on cost-effectiveness of endoscopic screening for Barrett's esophagus <b>Outcomes:</b> Presented in DDW 2003.	2003

Stotz, Jeffery (Fellow)	2003 - 2004
<b>Description:</b> Gastroenterology Fellow, Mentored in research projects on analysis of factor for prediction of difficult to sedate patients undergoing endoscopy.	
Thomas, Sapna (Fellow)	2003 - 2004
<b>Description:</b> Gastroenterology Fellow, Mentored in research projects on analysis of gastrointestinal cancer data in the SEER database.	
<b>Outcomes:</b> Presented in DDW 2003, 2004. Dr. Thomas is currently an Assistant Professor at Case University, Cleveland, OH	
Olds, Gregory (Fellow)	2003 - 2004
<b>Description:</b> Advanced Endoscopy Fellow, Mentored training in advanced endoscopy, ERCP and endoscopic ultrasonography.	
<b>Current Status:</b> Dr. Olds is currently an Assistant Professor at Wayne State University, Detroit, MI	
<b>Outcomes:</b> Dr. Olds is currently an Assistant Professor at Henry Ford University, Detroit, MI	
Farooq, Farees (Fellow)	2003 - 2007
<b>Description:</b> Gastroenterology Fellow, Mentored in research projects on role of artificial neural network in UGI bleeding and also on impact of supervised training on GI simulators. Both submitted for DDW 2005	
<b>Outcomes:</b> Dr. Farooq is currently an Assistant Professor at the University of Tennessee, Memphis, TN	
Dixit, Rahul (Medical Resident)	2004
<b>Description:</b> Mentored on a project on analysis of SEER database for colorectal carcinoids.	
<b>Outcomes:</b> Submitted for DDW 2005.	
Faux, Ashley (Fellow)	2004
<b>Description:</b> Advanced Endoscopy Fellow, Mentored training in advanced endoscopy, ERCP and endoscopic ultrasonography. Mentored her in research project on unsedated esophagoscopy as a screening tool in patients with Barrett's esophagus.	
<b>Current Status:</b> Currently the Director of Endoscopy at Cleveland VA Medical Center	
<b>Outcomes:</b> Presented in DDW 2004. Dr. Faux is currently an Assistant Professor at Case University, Cleveland, OH	
Ghoshal, UC (International Fellow)	2005
<b>Description:</b> Sponsored as visiting faculty at Mayo Clinic Arizona - 2005	
<b>Current Status:</b> Associate Professor, SG Post Graduate Institute, Lucknow, India.	
Pasha, Shabana (Fellow)	2005 - 2007
<b>Outcomes:</b> Mentored on research projects involving evaluation of endoscopic therapy of anastomotic biliary strictures and also, role of double balloon colonoscopy in patients with incomplete colonoscopy. Both projects submitted as original articles for publication; the double balloon colonoscopy abstract was presented in 2005 ACG Annual Conference in Honolulu, HI. Dr. Pasha is currently an Assistant Professor, College of Medicine, Mayo Clinic	



Li, Feng (Fellow) <b>Outcomes:</b> Mentored on a research project on digital image analysis of EUS images for differentiation of pancreatic adenocarcinoma from normal pancreatic tissue. Accepted for presentation at DDW in Mayo 2006. SEER-Medicare data analysis of pancreatic cancer.	2005 - 2008
Wells, Christopher (Fellow) <b>Outcomes:</b> Mentored on a research project on natural history and optimal imaging interval of patients with pancreatic cystic lesions. Manuscript in preparation.	2005 - 2008
Nagendra, Shweta (Resident) <b>Outcomes:</b> Mentored on a project evaluating cost-effectiveness of different strategies of management of asymptomatic pancreatic cystic lesions. Accepted for presentation in DDW, May 2006.	2005 - 2008
Ishihara, Ryu (International Fellow) <b>Description:</b> Sponsored as Visiting Faculty at Mayo Clinic Arizona	2006
Rodriguez (Fellow) <b>Description:</b> Mentored on economic analysis of outcomes of capsule endoscopy.	2007
Stipho, Sally (Fellow) <b>Description:</b> Mentored on cost analysis of outcomes of capsule endoscopy in the diagnosis of esophageal varices	2007
Singh, Vandana (Fellow) <b>Description:</b> Mentored on research projects SEER data analysis on gastrointestinal cancer treatment outcomes. Dr. Singh was the recipient of ASGE Diversity Award for 2007 based on this project	2007 - 2008
Alam, Shayan (Resident) <b>Description:</b> Mentored in research project on Digital Image analysis of cytology samples obtained by ERCP.	2007 - 2008
Ngamruengphong, S (International Fellow) <b>Description:</b> Mentored on research projects of meta-analysis of chromoendoscopy and endoscopic ultrasonography.	2007 – 2009
Han, Nancy (Fellow) Prediction of Dysplasia in Barrett's Esophagus by Neural Network	2008-2010
Batheja, Mashal (Fellow) ERCP and Patient positioning	2008-2010
Fuji Larissa (Resident) Early Esophageal Cancer and Nodal status	2009-2010
Nguyen, Vien () Confocal Endomicroscopy in Barrett's	2008-2010
Rataupli, Shiva (Research Fellow) Sessile Serrated Adenoma - Colon	2009-2010

### **Honors and Awards for Education**

David Week Memorial Award for Outstanding Clinician Teacher - Department of Medicine, Health Science Center, State University of New York, Stony Brook, New York	1996
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## INSTITUTIONAL/DEPARTMENTAL ADMINISTRATIVE RESPONSIBILITIES, COMMITTEE MEMBERSHIPS AND OTHER ACTIVITIES (\* indicates office held)

### Mayo Clinic

Mayo Foundation Task Forces  
 Esophageal Adenocarcinoma and Barrett's Esophagus Registry Consortium  
 \*Member 2006 - 2010

### Mayo Clinic Arizona

Department of Internal Medicine  
 Administrative Committee  
 \*Member 2008 - 2010

Division of Gastroenterology and Hepatology  
 Disease Oriented Group (Upper GI Cancer)  
 \*Member 2007 - 2010

Endoscopic Research  
 \*Director 2004 - 2010

Endoscopy Committee  
 \*Member 2005 - 2010

Executive Committee  
 \*Member 2008 - 2010

Mayo Clinic Arizona Committees  
 Executive Board - Mayo Clinic Arizona  
 Research Committee  
 \*Member 2005 - 2010

Compliance Education Subcommittee  
 \*Associate Chair 2008 - 2010

## PRESENTATIONS

### International

Double Balloon Colonoscopy 08/2006  
 Invited Presentation  
 1st International Double Balloon Endoscopy Workshop  
 Tokyo, Japan

Artificial Neural Network - Application in Biomedical Research 09/2006  
 Invited Speaker  
 4th SR Naik International Workshop on Biomedical Research Methods -  
 Sanjay Gandhi PG Institute  
 Lucknow, India

Lower Gastrointestinal Bleeding 11/2006  
 Indian society of Gastroenterology Annual Conference  
 Mumbai, India

Novel Imaging Techniques for Screening & Surveillance of Aero-digestive Cancer Invited Presentation BIT's Annual World Cancer Congress Shanghai, People's Republic of China	5/2008
Therapeutic EUS PLA Hospital, Endoscopy Festival of 2008 Beijing China	11/2008
Therapeutic and Interventional EUS Invited Presentation - Live Endoscopy Course Indian Society of Gastroenterology Annual Conference Kolkata, India	12/2009
<b>National</b>	
Abnormal biliary crystals in acute pancreatitis and atypical biliary pain Partnered with Ghoshal UC, Agarwal DK, Negi TS, Saraswat VA National Finalist, Associate Competition American College of Physicians Atlanta, Georgia	1995
Effect of aspirin on gallbladder motility in patients with gallstones: a randomized, placebo controlled trial of two dosage schedules Partnered with Baijal SS, Saraswat VA Winner, National Associate Research Competition American College of Physicians Atlanta, Georgia	1995
Effect of aspirin on gallbladder motility in patients with gallstones Partnered with Baijal SS and Saraswat VA Digestive Diseases Week San Diego, California	05/1995
Prevalence and natural history of subclinical hepatic encephalopathy in cirrhosis Partnered with Dhiman RK and Saraswat VA Digestive Diseases Week San Diego, California	05/1995
Cost-effectiveness of long-term antibiotic prophylaxis for spontaneous bacterial peritonitis in cirrhosis Winner, National Associate Research Competition American College of Physicians San Francisco, California	1996
Cost-effectiveness of different strategies of hepatitis A vaccination in adult Digestive Diseases Week New Orleans, Louisiana	05/1998
Should liver biopsy be done in asymptomatic patients with chronically elevated transaminases Partnered with Post AB Digestive Diseases Week New Orleans, Louisiana	05/1998
Cost-effectiveness of cytomegalovirus prophylaxis in recipients of orthotopic liver transplantation Digestive Diseases Week New Orleans, Louisiana	05/1998

<p>Antibiotic prophylaxis for spontaneous bacterial peritonitis in cirrhosis: a strategy of risk stratification improves cost-effectiveness  Digestive Diseases Week  New Orleans, Louisiana</p>	05/1998
<p>Intraductal ultrasound in the diagnosis of choledocholithiasis  Partnered with Isenberg, Chak A, et al.  Digestive Diseases Week  San Diego, California</p>	05/2000
<p>Optical coherence tomography in the diagnosis of Barrett's esophagus  Partnered with Sivak, MV, Chak A, et al.  Digestive Diseases Week  San Diego, California</p>	05/2000
<p>A national survey of cervical esophageal perforation during endoscopic ultrasonography  Partnered with Chak A and Sivak MV  Digestive Diseases Week  San Diego, California</p>	05/2000
<p>Are we training residents and medical students in fecal occult blood testing well enough?  Partnered with Wong RCK, and Sivak MV  Digestive Diseases Week  San Diego, California</p>	05/2000
<p>Role of artificial neural network in predicting severity of lower gastrointestinal bleeding  Partnered with Wong RCK, Chak A, et al.  Digestive Diseases Week  San Diego, California</p>	05/2000
<p>High resolution endosonography using catheter probe endoscopic ultrasound probes: a comparison of 20 MHz vs. 30 MHz. probes  Partnered with Chak A, Wong RCK, et al.  Digestive Diseases Week  San Diego, California</p>	05/2000
<p>Artificial neural network in predicting need for endoscopic therapy in upper gastrointestinal bleeding - a potential tool for triage  Partnered with Wong RCK, Chak A, et al.  Digestive Diseases Week  San Diego, California</p>	05/2000
<p>A comparative study of high resolution endoscopy in normal gastrointestinal tissue using optical coherence tomography and catheter probe endosonography  Partnered with Sivak MV, Chak A, et al.  Digestive Diseases Week  San Diego, California</p>	05/2000
<p>An international survey of the clinical practice of endoscopic ultrasonography  Prepared with Mourad W, Lightdale C, et al.  Digestive Diseases Week  Orlando, Florida</p>	05/2001

<p>Unsedated screening esophagoscopy of asymptomatic adults for Barrett's esophagus is cost-effective  Prepared with Nonevski I, Faulx A, et al.  Digestive Diseases Week  Orlando, Florida</p>	05/2001
<p>Validation of an artificial neural network trained to predict outcome of patients with acute lower gastrointestinal hemorrhage  Prepared with Ben-Menachem T, Cooper GS, Sivak MV and Wong RCK  Digestive Diseases Week  Atlanta, Georgia</p>	05/2001
<p>Validation of an artificial neural network trained to predict stigmata of recent hemorrhage and need for endoscopic therapy in patients with acute non-variceal upper gastrointestinal hemorrhage  Prepared with Ben-Menachem T, Cooper GS, Sivak MV and Wong RCK  Digestive Diseases Week  Atlanta, Georgia</p>	05/2001
<p>Cost-effectiveness analysis of a putative vaccine against hepatitis E  Prepared with M Sinha  American College of Gastroenterology  Las Vegas, Nevada</p>	10/2001
<p>Role of artificial neural network in predicting 1-year mortality in patients with cirrhosis  Prepared with R Banerjee, U Ghshal and M Sinha  American College of Gastroenterology  Las Vegas, Nevada</p>	10/2001
<p>Capsule Endoscopy: Interobserver Comparison of Interpretation  Digestive Diseases Week  Orlando, Florida</p>	05/2003
<p>An International Survey of the clinical Practice of Endoscopic Ultrasonography  Digestive Diseases Week  Orlando, Florida</p>	05/2003
<p>Familial Barrett's Esophagus Versus Sporadic Disease-Endoscopic Screening of relatives  Digestive Diseases Week  Orlando, Florida</p>	05/2003
<p>Unsedated Screening Esophagoscopy Does Not Impact on Primary Care Physicians Screening Practice  Digestive Diseases Week  Orlando, Florida</p>	05/2003
<p>Unsedated Screening Esophagoscopy of asymptomatic Adults for Barrett's Esophagus is Cost-Effective  Digestive Diseases Week  Orlando, Florida</p>	05/2003
<p>A Prospective Evaluation of Dual Plane Reconstruction Probe for Imaging of Gastrointestinal Lesions  Digestive Diseases Week  Orlando, Florida</p>	05/2003

Prophylactic Pancreatic Stenting for Prevention of Post ERCP Acute Pancreatitis: A Metaanalysis of Controlled Trials Digestive Diseases Week Orlando, Florida	05/2003
Outcome of a Nurse Practitioner Based Colorectal Cancer Screening Flexible Sigmoidoscopy Program In VA Medical Center Digestive Diseases Week Orlando, Florida	05/2003
Accuracy of Endoscopic Optical Coherence Tomography (EOCT) in the Detection of Dysplasia (D) in Barrett's Esophagus (BE) Digestive Diseases Week Orlando, Florida	05/2003
Use of Intravenous Albumin in Patients with Cirrhosis and SBP for Reducing Complications and Mortality is a Cost-Effective Intervention Digestive Diseases Week Orlando, Florida	05/2003
Do Stents Reduce the Diagnostic Yield of EUS-FNA in Malignant Strictures? Digestive Diseases Week New Orleans, Louisiana	05/2004
Association Between Breast Cancer (BC)and Esophageal Adenocarcinoma (EAC) in Women Digestive Diseases Week New Orleans, Louisiana	05/2004
Economic Burden of Acute Diverticular Hemorrhage in the U.S. A Nationwide Estimate Digestive Diseases Week New Orleans, Louisiana	05/2004
Trend in Age Conditional Risk of Developing Invasive Esophageal Cancer (EC) in the 1990's Digestive Diseases Week New Orleans, Louisiana	05/2004
Long Term Outcome in Patients with Endosonographic Findings Suggestive of Mild Chronic Pancreatitis Digestive Diseases Week New Orleans, Louisiana	05/2004
A Changing Landscape of Practice Patterns Regarding Unsedated Endoscopy and Protocol Use: A National Survey Digestive Diseases Week New Orleans, Louisiana	05/2004
Primary Care Physician (PCP) Attitudes Towards Unsedated Endoscopy (UE) and Screening Practices for Barrett's Esophagus (BE): a Survey Study Digestive Diseases Week New Orleans, Louisiana	05/2004
EUS Evaluation Improves Survival in Patients with Esophageal Cancer Platform Presentation Digestive Diseases Week Chicago, Illinois	05/2005

Temporal Trend in Utilization of EUS in Patients with Esophageal Cancer Digestive Diseases Week Chicago, Illinois	05/2005
Associations Between Primary Esophageal Adenocarcinoma (EAC) and Other Cancers Digestive Diseases Week Chicago, Illinois	05/2005
Supervised Versus Unsupervised Training on a Computer-Based Colonoscopy Simulator Digestive Diseases Week Chicago, Illinois	05/2005
An analysis of 5,166 Cases of Malignant Colorectal Neuroendocrine Neoplasms (mcnn) Digestive Diseases Week Chicago, Illinois	05/2005
Unsedated Screening Esophagoscopy for Barrett's Esophagus in a Primary Care Setting Digestive Diseases Week Chicago, Illinois	05/2005
Adenocarcinoma of the Appendix (acap) and its Association with Colorectal Adenocarcinoma (CRC) Digestive Diseases Week Chicago, Illinois	05/2005
Geographic and Patient-Level Variations in Utilization of Endoscopic Ultrasonography in Patients with Esophageal Cancer Digestive Diseases Week Chicago, Illinois	05/2005
Artificial Neural Network (ANN) is Superior to the Pre-Endoscopic Rockall Score in Predicting Which Patients Will Benefit from Urgent EGD in Acute Upper GI Bleeding Platform Presentation Digestive Diseases Week Chicago, Illinois	05/2005
Screening Colonoscopy - Are We Starting Too Late? Annual Meeting of American College of Gastroenterology Honolulu, Hawaii	11/2005
Retrograde Double Balloon Endoscopy for Completion Colonoscopy in Patients with Incomplete Colonoscopy Using a Conventional Colonoscope Annual Meeting of American College of Gastroenterology Honolulu, Hawaii	11/2005
Optimal Management of Pancreatic Cysts - A Cost-Effectiveness Analysis Digestive Disease Week Los Angeles, California	05/2006
Temporal Trend in Relative Risk of Second Primary Colorectal Cancer (CRC): An Impact of Surveillance? Platform Presentation Digestive Disease Week Los Angeles, California	05/2006

Digital Image Analysis of EUS Images Accurately Differentiates Pancreatic Cancer from Normal Tissue and Mayo Obviate Need for EUS FNA Digestive Disease Week Los Angeles, California	05/2006
Cost-effectiveness of String Capsule Endoscopy for Screening for Barrett's Esophagus Digestive Disease Week Washington, District of Columbia	05/2007
Endoscopic Ablative Therapy is a Cost-effective Management for Non-dysplastic Barrett Esophagus Digestive Disease Week Washington, District of Columbia	05/2007
Cost Effectiveness of String Capsule Endoscopy for Screening and Surveillance of Esophageal Varices Digestive Disease Week Washington, District of Columbia	05/2007
Stereoscopic Visualization and Hepatic Virtual Exploration of Endoscopic Images for Improved Diagnosis Digestive Disease Week Washington, District of Columbia	05/2007
Racial Variability in Secular Trends in the Incidence of Proximal Colon Cancer-Results from a National Cancer Registry Digestive Disease Week Washington, District of Columbia	05/2007
Digital Image Analysis (DIA) of EUS Images Accurately Differentiates Pancreatic Cancer (PC) from Chronic Pancreatitis (CP) Digestive Disease Week Washington, District of Columbia	05/2007
Endoscopic Therapy is as Effective as Surgical Resection in Managing Patients with Early Esophageal Cancer - Analysis of Data from National Cancer Registry ASGE Plenary Session Digestive Disease Week Washington, District of Columbia	05/2007
Double-balloon Enteroscopy (DBE) and Capsule Endoscopy (CE) Have a Comparable Diagnostic Yield in Patients with Suspected Small Bowel Disease: A Meta-analysis Digestive Disease Week Washington, District of Columbia	05/2007
Treatment of Early Esophageal Adenocarcinoma and High Grade Dysplasia in Elderly Patients with Barrett Esophagus Using a Multi-band Endoscopic Resection Device Digestive Disease Week Washington, District of Columbia	05/2007
Double-balloon Enteroscopy (DBE) and Capsule Endoscopy (CE) Have a Comparable Diagnostic Yield in Patients with Obscure Gastrointestinal Bleeding: A Meta-analysis Digestive Disease Week Washington, District of Columbia	05/2007



Physician Clinical Decision-making and Triage is a More Accurate Predictor of Need for Endoscopic Therapy (ET) than Clinical Rockall Score (cRS) and Blatchford Score (BS) in Patients with Acute Upper GI Hemorrhage (UGIH) Digestive Disease Week Washington, District of Columbia	05/2007
Epidemiology of Sporadic Pancreatic Neuroendocrine Malignant Tumors in the US Digestive Disease Week San Diego, California	05/2008
Endosonographic Evaluation Improves Survival in Patients with Pancreatic Cancer Digestive Disease Week San Diego, California	05/2008
Temporal Trend in Utilization of Endoscopic Ultrasonography in Patients with Pancreatic Cancer Digestive Disease Week San Diego, California	05/2008
Utility of Double Balloon Enteroscopy (DBE) in Performing ERCP in Patients with Bariatric Gastric Bypass (RYGB) Digestive Disease Week San Diego, California	05/2008
High Resolution Esophageal Manometry (HRM): Evaluation of the New Diagnostic Criteria for Patients with Achalasia Digestive Disease Week San Diego, California	05/2008
Geographic and Patient-level Variations in Utilization of Endoscopic Ultrasonography in Patients with Pancreatic Cancer Digestive Disease Week San Diego, California	05/2008
Advanced Cytological Techniques Clarify Indeterminate Results on Conventional Cytology During Evaluation of Biliary Strictures Digestive Disease Week San Diego, California	05/2008
Assessment of Response to Neoadjuvant Therapy in Esophageal Cancer - A Systematic Review of Diagnostic Accuracy of EUS and FDG-PET Digestive Disease Week San Diego, California	05/2008
Digital Image Analysis (DIA) is a Useful Adjunct to Endosonographic Diagnosis of Submucosal Lesions (SML) of the Gastro-intestinal tract Digestive Disease Week San Diego, California	05/2008
Reduced Gastric Accommodation in Non-ulcer Dyspepsia (NUD) Lasts at Least 2 Hours: Studies by Simultaneous Gastric Volume and Emptying Measurements Digestive Disease Week San Diego, California	05/2008

Mucinous Cyst Adenocarcinoma (MCA) has Better Prognosis Compared to Malignant Intraductal Papillary Mucinous Tumor (IPMT) of the Pancreas: Analysis of a Population Based Cancer Registry Digestive Disease Week San Diego, California	05/2008
Diagnostic Yield of Methylene Blue (MB) Chromoendoscopy and Conventional Random Biopsy (RB) for detecting of specialized intestinal Metaplasia (SIM) and Dysplasia in Barrett's Esophagus (BE): A Meta-analysis Digestive Disease Week San Diego, California	05/2008

## INVITED PRESENTATIONS AND VISITING PROFESSORSHIPS

### Invited Presentations

Optical Coherence Tomography in Gastrointestinal Endoscopy Invited Presentation Case Western Reserve University EBME 602 Course: Gastroenterology for Biomedical Engineers Cleveland, Ohio	2003 - 2004
Pancreatic and Biliary Physiology Invited Speaker Case Western Reserve University Medical School GI Physiology Course Cleveland, Ohio	2004
Role of artificial Intelligence in predicting outcomes in patients with Gastrointestinal Hemorrhage Gastroenterology Grand Rounds Yale University New Haven, Connecticut	04/2004
Prediction of outcomes in gastrointestinal hemorrhage – a review of risk scores Grand Rounds Case Western Reserve University and University Hospitals of Cleveland Medicine Cleveland, Ohio	10/2004
EUS as an Adjunct to ERCP Invited Presentation and Moderator Mayo Clinic Scottsdale Winter Gastroenterology Course Scottsdale, Arizona	02/2005
Endoscopic Mucosal Resection; When to do it and its Techniques Invited Presentation ACG Governor/ASGE Best Practices 2006 Meeting	2006
Endoscopic Imaging in 2006; EUS and Beyond Invited Presentation and Moderator Mayo Clinic Scottsdale Winter Gastroenterology Meeting Scottsdale, Arizona	02/2006
EUS Staging of Luminal GI Malignancy Invited Presentation Mayo Clinic EUS Course Scottsdale, Arizona	08/2006

Risk Scores and Prognostication in Lower GI Bleeding Invited Presentation Indian Society of Gastroenterology International Conference	10/2006
<b>Visiting Professorships</b>	
Role of Artificial Intelligence in Predicting Outcomes in Patients with Gastrointestinal Hemorrhage Gastroenterology Grand Rounds Yale University New Haven, Connecticut	04/2004
Predication of Outcomes in Gastrointestinal Hemorrhage - A Review of Risk Scores Department of Medicine Grand Rounds Case University and University Hospitals of Cleveland Cleveland, Ohio	11/2004
Double Balloon Endoscopy and Small Bowel Imaging Medicine Grand Rounds, Department of Medicine Osaka Medical Center for Cardiovascular and GI Diseases Osaka, Japan	08/2006
Balloon Assisted Enteroscopy Gastroenterology Grand Rounds University of Texas medical Branch Galveston, Texas	10/2007
Therapeutic EUS PLA Hospital, Endoscopy Festival of 2008 Beijing China	11/2008

## **CLINICAL PRACTICE, INTERESTS, AND ACCOMPLISHMENTS**

Therapeutic Endoscopy, Biliopancreatic Endoscopy, Endoscopic Ultrasonography

## **RESEARCH INTERESTS**

### RESEARCH INTERESTS:

Digital Image Analysis and Processing, Bilio-pancreatic Endoscopy, Endoscopic Ultrasonography, Optical Coherence Tomography, Clinical application of Artificial Neural Network, Decision Analysis, Endoscopic Outcomes Research, SEER database analysis, Unsedated esophagoscopy and Barrett's Esophagus

Digital Image Analysis for Improvement of Endoscopic Detection of Columnar Lined Epithelium with Specialized Intestinal Metaplasia and Dysplasia in Patients with Barrett's Esophagus

Evaluation of Role of Artificial Neural Network for Risk-stratification of Risk of dysplasia in Patients with Barrett Esophagus - Using the Mayo Clinic Esophageal Adenocarcinoma and Barrett's Esophagus Registry Consortium

Analysis of SEER-Medicare database to evaluate impact of Endoscopic Ultrasonography on survival in patients with pancreatic cancer; temporal trend, geographic and patient-level variation in receipt of EUS in Medicare patients

## RESEARCH GRANTS AWARDED

### Recent Grants

Principal Investigator	A Prospective Randomized Trial Comparing Yield of Confocal Endomicroscopy Guided Biopsies in the Detection of Specialized Columnar Epithelium in Barrett's Esophagus. Funded by Mayo Protocol.	06/2008 - 05/2010
Principal Investigator	Feasibility and Safety of Clinically relevant Transluminal Endoscopic Interventions in Porcine Models. Funded by Mayo Protocol.	11/2008 - 10/2010
Program Director / Principal Investigator	MCA AWARD: Detection of Dysplasia by Chromoendoscopy and Narrow Band Imaging in Chronic Ulcerative Colitis in: Detection of Dysplasia by Chromoendoscopy and Narrow Band Imaging in Chronic Ulcerative Colitis.	03/2009 - 03/2011
Co-I	NIH Pancreatic Spore & Biomarker	2006-2013
Co-PI	Digital Image Analysis in detection of dysplasia in Barrett's (PENDING)	2010-
Co-PI	Diabetes and Barrett's Cancer _ Epidemiological Association TAKEDA FOUNDATION (PENDING)	2010-

### Completed Grants

#### Federal

Co-Investigator	Randomized Trial of EUS Neurolysis in Pancreas Cancer. Funded by National Institute of Diabetes and Digestive and Kidney Diseases. (R03 DK069947)	08/2005 - 07/2008
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#### Industry

Co-Investigator	A Phase III Study to Demonstrate the Efficacy and Safety of RG1068 Enhanced MRCP in the evaluation of Subjects with a history of Acute or Acute Recurrent Pancreatitis. Funded by Repligen Corporation.	06/2008 - 05/2009
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#### Foundation

Principal Investigator	Impact of EUS in Staging of Esophageal Cancer-a SEER-Medicare Database Analysis. Funded by American Society for Gastrointestinal Endoscopy.	01/2004
Principal Investigator	Digital Image Analysis for Improvement of Endoscopic Detection of Columnar Epithelium with Specialized Intestinal Metaplasia. Funded by American Society For Gastrointestinal Endoscopy. (ASGE)	07/2006 - 06/2008
Principal Investigator	Digital Image Analysis of Endoscopic Images for Differentiating Adenomatous Polyps from Non-Adenomatous Polyps Seen During Sigmoidoscopy/Colonoscopy. Funded by American College of Gastroenterology.	08/2006 - 07/2007

#### Mayo Clinic

Principal Investigator	Utilization & Impact of Endoscopic Ultrasonography (EUS) in Mgmt of Pancreatic Cancer. Funded by Mayo Protocol.	01/2005 - 12/2005
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### **Book Chapters**

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### **Forthcoming**

1. Worthington J, Chak A, Das A, Cooper GS. Predictors of receipt of endoscopic ultrasound and survival in patients with localized and regional rectal cancer. Submitted to Cancer.

\* Indicates that the primary author was a mentee of this author.