

SAVE THE DATE



American Neurogastroenterology and Motility Society 2019 ANMS Annual Meeting

Clinical Course

Providing the best clinical care for our patients

August 16, 2019

Scientific Program

Advancing patient care through cutting-edge research

August 16 (4 pm) – August 18, 2019

Young Investigator Forum

Developing our future researchers in neurogastroenterology and motility

August 15 – 16, 2019



Swissôtel, Chicago, Illinois

Clinical Course • Providing the best clinical care for our patients

Thursday, August 15, 2019

4:00–6:00 pm

Registration

Friday, August 16, 2019

7:00 am–5:30 pm

Registration

7:00–7:45 am

Breakfast • Visit Exhibits

7:45–8:00 am

Welcome • Introduction • *Beverley Greenwood-Van Meerveld, John Pandolfino*

8:00–10:00 am

Esophagus

Moderators: *Dustin Carlson, Rena Yadlapati*

Allied Health Professionals Session

Moderator: *Jason Baker*

8:00–8:25 am

Non-obstructive dysphagia and phenotyping the patient

Dustin Carlson

8:00–8:30 am **High-resolution anorectal manometry**
Proper catheter placement, learn to perform high-quality high-resolution manometry, identify dyssynergic defecation patterns, editing parameters
Jason Baker

Utility (or futility) of tools to diagnose laryngopharyngeal reflux

Rena Yadlapati

8:30–9:00 am **Pelvic floor physical therapy**
Define pelvic floor physical therapy, explain methods for relaxing pelvic floor, methods in relation to pelvic floor and fecal incontinence
Vonna Karoghlarian

8:50–9:15 am

Mucosal impedance studies of the esophagus

Michael Vaezi

9:15–9:40 am

Non-minimally invasive esophageal tissue sampling, e.g., Cytosponge, string test, transnasal esophagoscopy (TNE)

Ikuo Hirano

9:00–9:30 am **FLIP topography**
Learn the attributes of the FLIP catheter, review FLIP catheter placement techniques, esophageal motility patterns using FLIP, review gastroesophageal junction function
John Pandolfino

9:40–10:00 am

Panel Discussion

9:30–10:00 am **Panel Discussion**

10:00–10:30 am

Break • Visit Exhibits

Break • Visit Exhibits

10:30 am–12:30 pm

Stomach/Small Bowel

Moderators: *Braden Kuo, Henry Parkman*

10:30–10:55 am

Gastroparesis: Update on mechanisms from the Gastroparesis Consortium

Henry Parkman

10:55–11:20 am

New frontiers in studying motility of the stomach and small intestine

Braden Kuo

program continued

Friday, August 16, 2019 *continued*

11:20–11:45 am	Emerging capsule technologies for functional gastrointestinal and motility disorders: The future is now! <i>William Chey</i>
11:45 am–12:10 pm	Motility modifying agents - are we getting anywhere? <i>Mark Pimentel</i>
2:10–2:30 pm	Panel Discussion

Parallel Lunches • Choose one • Visit Exhibits

12:30–1:15 pm	Lunch • no speaker • Visit Exhibits
12:30–1:15 pm	Lunch Symposium • Alnylam sponsored • Visit Exhibits Medical Mystery: A case of unexplained, severe, diffuse, abdominal pain <i>Manisha Balwani, Gregory Sayuk</i>
1:15–2:45 pm	Anorectal Disorders Moderators: <i>William Chey, Satish Rao</i>
1:15–1:40 pm	New treatments for anorectal disorders <i>Satish Rao</i>
1:40–2:05 pm	Colon motility in constipation: When and how should I assess this? <i>Richard Saad</i>
2:05–2:30 pm	Review radiopaque marker, wireless motility capsule, and advanced imaging in assessing colon motility in constipation <i>Darren Brenner</i>
2:30–2:45 pm	Panel Discussion
2:45–3:00 pm	Break • Visit Exhibits
3:00–4:30 pm	Mind–Medicine Interplay in Gastroenterology Moderators: <i>Laurie Keefer, Tiffany Taft</i>
3:00–3:25 pm	New concepts into the mechanisms of Brain-Gut interactions <i>Kirsten Tillisch</i>
3:25–3:50 pm	Choosing behavioral approaches for my patients – shifting to a more positive psychology/ resilience model in psychogastroenterology <i>Laurie Keefer</i>
3:50–4:15 pm	When the diagnosis is functional: Supporting the psychological needs of pediatric/young adult patients and their parents from evaluation through treatment <i>Julie Snyder</i>
4:15–4:30 pm	Panel Discussion

Concurrent Sessions • Women in Neurogastroenterology • 4:00–6:00 pm • Marijuana and Opioids • 4:30–5:30 pm

4:00–6:00 pm	Women in Neurogastroenterology Moderators: <i>Lin Chang, Beverley Greenwood-Van Meerveld, Linda Nguyen</i>
4:00–4:30 pm	Welcome Reception
4:30–4:35 pm	Introduction and objectives of developing a Women in Neurogastroenterology program <i>Beverley Greenwood-Van Meerveld</i>
4:35–4:45 pm	Women in Neurogastroenterology survey results <i>Lin Chang</i>
4:45–5:15 pm	Work–life integration <i>Linda Nguyen</i>

Friday, August 16, 2019 *continued*

5:15–5:50 pm	Panel discussion with representatives from academia, industry, and private practice, followed by a group Q & A <i>Lin Chang, Susan Lucak, Linda Nguyen</i>
5:50–6:00 pm	Group discussion on creating an enduring Women in Neurogastroenterology program, and planning future events
6:00 pm	Adjourn
4:30–5:30 pm	Marijuana and Opioids Moderators: <i>John Pandolfino</i>
4:30–4:55 pm	The link between cannabis, opioids, and chronic pain <i>Ryan Zaklin</i>
4:55–5:20 pm	Opioid constipation: New nomenclature, therapeutics, and guideline recommendations <i>Darren Brenner</i>
5:20–5:30 pm	Panel Discussion
5:30 pm	Adjourn

Scientific Program • Advancing patient care through cutting-edge research

Friday, August 16, 2019

7:00 am–5:00 pm	Registration
6:00–8:00 pm	Welcome Reception • Poster Session

Saturday, August 17, 2019

7:00 am–5:00 pm	Registration	
7:00–7:45 am	Breakfast • Visit Exhibits	
7:45–8:00 am	Welcome • Introduction • <i>Beverley Greenwood-Van Meerveld</i>	
8:00–9:30 am Concurrent Sessions	Concurrent Session 1 Neurodevelopmental programming of the GI tract Moderators: <i>Kara Margolis, Shanthi Srinivasan</i>	Concurrent Session 2 What's in your head: Central control of the GI tract Moderators: <i>Beverley Greenwood-Van Meerveld, R. Alberto Travagli</i>
8:00–8:20 am	The effects of early-life stress on the development of FGIDs <i>Lin Chang</i>	Extrinsic innervation of the GI tract <i>Terry Powley</i>
8:20–8:40 am	Intestinal microbiota influence the early postnatal development of the ENS <i>Elyanne Ratcliffe</i>	Acute effects of diet on central vagal neurocircuits <i>Kirsteen Browning</i>
8:40–9:00 am	Mapping out ENS development at the single cell level <i>Meenakshi Rao</i>	Shining a light on the black-box of stress-induced visceral pain <i>Anthony Johnson</i>
9:00–9:15 am	Bacterial products affect enteric neural crest derived cell maturation <i>J Popov, J Bandura, J Huang, F Markovic, R Borojevic, N Pai, EM Ratcliffe</i> Hamilton, ON, Canada, Toronto, ON, Canada <i>McMaster University</i> Abstract 1	Effects of translumbosacral neuromodulation therapy (TNT) on gut and brain interactions and anorectal neuropathy in fecal incontinence (FI) <i>S Rao, YS Yan, XS Xiang, AS Sharma, TS Patcharatrakul, KS Rattanakovit, DS Ayyala, S Hamdy</i> Augusta, GA, Manchester, United Kingdom <i>Augusta University</i> Abstract 3

program continued

Saturday, August 17, 2019 continued

9:15–9:30 am	Sacral nerve stimulation inhibits the MAPK/NF-KB signaling pathway and promotes TREG-TH1/TH17 cell balance and self-renewal of enteric nervous system in TNBS-induced inflammation in rats <i>Y Meng, J Chen</i> Baltimore, MD <i>Johns Hopkins University</i> YIF Participant	Pre-exposure to an enriched environment is protective against stress-induced viscerosomatic hypersensitivity <i>A Orock, J Love, C Ligon, AC Johnson, B Greenwood-Van Meerveld</i> Oklahoma City, OK <i>University of Oklahoma Health Sciences Center</i> YIF Participant
9:30–10:00 am	Break • Visit Exhibits	Break • Visit Exhibits
10:00–10:30 am Concurrent Sessions	Concurrent Session 1 New advances in behavioral treatments for GI diseases Moderator: <i>Laurie Keefer, Jeffrey Lackner</i>	Concurrent Session 2 Gut neurogenesis: What's the latest Moderators: <i>Simon Gibbons, Jackie Wood</i>
10:00–10:20 am	Brain–gut psychotherapies for non-psychologists <i>Laurie Keefer</i>	The role of stem cells in peripheral nervous system development <i>Jamie Belkind-Gerson</i>
10:20–10:40 am	Patient experiences with behavioral medicine <i>Sarah Quinton</i>	Neurogenesis in the adult enteric nervous system <i>Subhash Kulkaarni</i>
10:40–11:00 am	Factors associated with response to placebo in patients with irritable bowel syndrome and constipation <i>Sarah Ballou</i>	Gene environment interactions and neural plasticity <i>Robert Heukeroth</i>
11:00–11:15 am	Using EndoFlip to compare static and dynamic pyloric motor function before and after G-POEM for treatment of refractory gastroparesis <i>L Watts, J Baker, A Lee, N Bowers, R Law, W Hasler</i> Ann Arbor, MI <i>University of Michigan</i>	Transcriptional and epigenetic mechanisms underlying WNT-TRP53-mediated loss of interstitial cell of Cajal stem cells (ICC-SC) in aging <i>Y Hayashi, J Lee, DR Linden, SJ Gibbons, T Ordog</i> Rochester, MN <i>Mayo Clinic College of Medicine and Science</i>
11:15–11:30 am	Safety, tolerability and pharmacodynamics of TAK-906, a dopamine 2, 3 antagonist, in patients with diabetic or idiopathic gastroparesis <i>G Dukes, C Scimia, B Kuo, W Zhang, S Gupta, C Chen, E Chuang, M Camilleri</i> Raleigh, NC, Boston, MA, Cambridge, MA, Park City, UT, Rochester, MN <i>Takeda Pharmaceuticals</i>	Exploring the roles of voltage-gated calcium channels in mouse enteroendocrine cell mechanotransduction <i>C Alcaïno, K Knutson, V Nayak, P Strege, H Kacmaz, A Treichel, J Li, A Leiter, G Farrugia, A Beyder</i> Rochester, MN, Worcester, MA <i>Mayo Clinic</i>
11:30–11:45 am	Impact of fecal bile acid diagnostic testing in 966 patients with chronic functional diarrhea: reduction in health care utilization, positive diagnosis and prediction of response to bile acid sequestrant <i>P Vijayvargiya, G Calderon, D Gonzalez, S Tawfic, S Batbold, H Saifuddin, P Duggan, V Melo, T Thomas, M Heeney, A Beyder, J Miller, Jr, K Valles, K Oyemade, J Fenner, V Chedid, M Camilleri</i> Rochester, MN <i>Mayo Clinic College of Medicine and Science</i>	Role of muscularis macrophages in enteric nervous system plasticity <i>G Cipriani, S Ji, M Mischopoulou, A Wright, MJ Silva, L Sha, DR Linden, T Ordog, SJ Gibbons, G Farrugia</i> Rochester, MN <i>Mayo Clinic</i>
11:45 am–2:00 pm	Lunch • Poster Session	

Saturday, August 17, 2019 continued

2:00–3:30 pm Concurrent Sessions	Concurrent Session 2 Sex differences: Are they important in the control of the GI tract Moderator: Muriel Larauche, Miguel Saps	Concurrent Session 2 Food intolerances: Laboratory to table Moderator: Bethany Doerfler, Helen Raybould
2:00–2:20 pm	Role of sex and puberty in functional pain disorders <i>Bruno Chumpitazi</i>	Bitter taste receptors in the gut: Luminal sensing and signaling <i>Catia Sternini</i>
2:20–2:40 pm	Estrogen–gut microbiome axis and women's health <i>Melissa Herbst-Kralovetz</i>	Interactions between diet and the microbiota in the modulation of visceral sensation <i>Alan Lomax</i>
2:40–3:00 pm	Sex and stress: Effects on the brain–gut axis <i>Yanyan Jiang</i>	Diet therapies for IBS: Where are we going? <i>William Chey</i>
3:00–3:15 pm	The molecular origin of sex differences in chronic visceral pain following unpredictable early life stress <i>T Louwies, B Greenwood-Van Meerveld</i> Oklahoma City, OK. <i>Oklahoma University Health Sciences Center</i> YIF Participant Abstract 11	Mechanisms responsible for regulation of caloric intake following acute high fat diet are developmentally regulated <i>C Clyburn, RA Travagli, KN Browning</i> Hummelstown, PA, Hershey, PA <i>Penn State University College of Medicine</i> YIF Participant Abstract 13
3:15–3:30 pm	Gonadal androgens act via the enteric nervous system to regulate colonic motility in mice <i>D Rastelli, L Matthews, W Dan, P Yim, M Rao</i> Boston, MA, New York, NY <i>Harvard Medical School</i> Abstract 12	Eating and psychiatric disorders are independent risk factors for rumination syndrome <i>JX Cai, D Wong, D Lee, WW Chan</i> Boston, MA <i>Harvard Medical School</i> Abstract 14
3:30–4:00 pm	Break • Visit Exhibits	Break • Visit Exhibits
4:00–5:45 pm Concurrent Sessions	Concurrent Session 1 Next generation therapeutics: Targeting microbiology, life style, and host factors Moderators: Eammon Quigley, Tamas Ordog	Concurrent Session 2 Neuroinflammation and bowel dysfunction Moderators: Fievos Christofi, Meenakshi Rao
4:00–4:25 pm	Gut microbiome: Nurture, design, and replace <i>Purna Kashyap</i>	Enteric neuroplasticity in inflammatory disorders <i>Gary Mawe</i>
4:25–4:50 pm	Cannabinoids: Use and abuse <i>Keith Sharkey</i>	Interaction between enteric neurons, glia, and nociceptors in neuroinflammation, motility, and pain <i>Brian Gulbransen</i>
4:50–5:15 pm	Epigenetics: Erasing painful transcriptional memories <i>John Wiley</i>	The guts of the opioid crisis: Microbiome and opioid tolerance <i>Hamid Akbarali</i>
5:15–5:30 pm	Olorinab (APD371), a peripherally restricted, highly selective, full agonist of the cannabinoid receptor type 2 (CB2), reduces visceral hypersensitivity in animal models <i>B Lindstrom, J Castro, J Maddern, S Garcia-Caraballo, A Lumsden, J Adams, SM Brierley</i> Adelaide, S Australia, San Diego, CA <i>Arena Pharmaceuticals</i> Abstract 15	Enteric glial A2Br signaling regulates gut barrier function, immune responses, and behavior after acute colitis <i>V Grubisic, V Bali, DE Fried, HK Eltzschig, MS Mazei-Robison, BD Gulbransen</i> East Lansing, MI, Houston, TX <i>Michigan State University</i> YIF Participant Abstract 17

program continued

Saturday, August 17, 2019 continued

5:30–5:45 pm	Comparing symptom outcomes after recommending prokinetic agents for diabetic vs. non-diabetic patients with suspected gastroparesis <i>WL Hasler, B Kuo, A Lee, L Nguyen, B Moshiree, H Parkman, J Wo, M Schulman, I Sarosiek, R McCallum, S Rao</i> Ann Arbor, MI, Boston, MA, Palo Alto, CA, Charlotte, NC, Philadelphia, PA, Indianapolis, IN, Largo, FL, El Paso, TX, Augusta, GA <i>University of Michigan</i> Abstract 16	Enteric glia contribute to visceral hypersensitivity through interactions with nociceptors <i>W Morales-Soto, BD Gulbransen</i> East Lansing, MI <i>Michigan State University</i> YIF Participant Abstract 18
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Concurrent Theme Symposia • Visceral Pain • 6:00–7:00 pm • Gastroparesis • 6:00–7:30 pm

6:00–7:00 pm	Concurrent Theme Symposium • Visceral Pain (CME) The endocannabinoid system and visceral pain: Its relevance to irritable bowel syndrome Moderator: <i>Kirsteen Browning</i>
6:00–6:25 pm	An overview of the endocannabinoid system in the brain–gut axis <i>Keith Sharkey</i>
6:25–6:50 pm	Role of the cannabinoid system in pain control: Therapeutic implications <i>John Wiley</i>
6:50–7:00 pm	Q & A
6:00 pm–7:30 pm	Concurrent Theme Symposium • Gastroparesis (non-CME) Challenges and controversies in gastroparesis: Motor, sensory or brain-gut dysfunction? Moderator: <i>Brian Lacy</i>
6:00–6:10 pm	Introduction: Review epidemiology, quality of life, economic impact, and current FDA treatment options <i>Brian Lacy</i>
6:10–6:25 pm	Gastroparesis: It's a motor disorder <i>Henry Parkman</i>
6:25–6:40 pm	Gastroparesis: It's a sensory disorder <i>Linda Nguyen</i>
6:40–6:55 pm	Gastroparesis: It's all in the pylorus <i>Michael Camilleri</i>
6:55–7:10 pm	Gastroparesis: It's a disorder of the brain-gut axis <i>Brian Lacy</i>
7:10–7:15 pm	Conclusions <i>Brian Lacy</i>
7:15–7:30 pm	Q & A

program continued

Sunday, August 18, 2019

7:00–10:00 am	Registration
7:00–8:00 am	Breakfast • Visit Exhibits
8:00–9:00 am	W. Jerry Dodds, MD and Sushil K. Sarna, PhD Lectureship Introduction: <i>Beverley Greenwood-Van Meerveld</i> Handshake research, mechanistic thinking, and management of patients: Combine basic science and clinical medicine: Half human, half fish <i>Michael Camilleri</i>
9:00–10:00 am 4 min sound bites	Young Investigator Forum • Presentations Moderators: <i>Brian Gulbransen, Maria Vazquez</i> , Co-Chairs, Young Investigator Forum
	Exploring the roles of voltage-gated calcium channels in mouse enteroendocrine cell mechanotransduction. <i>C Alcaino, K Knutson, V Nayak, P Strege, H Kacmaz, A Treichel, J Li, A Leiter, G Farrugia, A Beyder</i> Rochester, MN, Worcester, MA, <i>Mayo Clinic</i> Abstract 18A
	Proton pump inhibitor therapy reduces risk of repeat ablation for atrial fibrillation in patients with gastroesophageal reflux disease <i>JX Cai, S Kapur, and WW Chan</i> , Boston, MA, <i>Harvard Medical School</i> Abstract 18B
	Mechanisms responsible for regulation of caloric intake following acute high fat diet are developmentally regulated. <i>C Clyburn, RA Travagli, KN Browning</i> Hummelstown, PA, Hershey, PA, <i>Penn State University College of Medicine</i> Abstract 18C
	Enteric glial A2BR signaling regulates gut barrier function, immune responses, and behavior after acute colitis. <i>V Grubisic, V Bali, DE Fried, HK Eltzschig, MS Mazei-Robison, BD Gulbransen</i> East Lansing, MI, Houston, TX, <i>Michigan State University</i> Abstract 18D
	Acute colitis following chronic traumatic brain injury in mice induces persistent neurobehavioral deficits. <i>ME Hanscom, DJ Loane, T Shea-Donoue, AI Faden</i> Baltimore, MD, Dublin, Ireland, Bethesda, MD, <i>University of Maryland</i> Abstract 18E
	Effects of comprehensive self-management intervention on extraintestinal pain, fatigue, and sleep in adults with IBS. <i>KK Kamp, KR Weaver, LB Sherwin, SK Hwang, P Yang, BR Burr, K Cain, MM Heitkemper</i> Seattle, WA, Baltimore, MD, Columbia, MO, Yangsan, South Korea, <i>University of Washington</i> Abstract 18F
	The molecular origin of sex differences in chronic visceral pain following unpredictable early life stress <i>T Louwies, B Greenwood-Van Meerveld</i> Oklahoma City, OK, <i>Oklahoma University Health Sciences Center</i> Abstract 18G
	Mechanotransduction in enteric glia may cause direct presynaptic facilitation of non-cholinergic neuromuscular contractions. <i>E Mazzotta, E Villalobos-Hernandez, I Grants, S Bergese, B Gulbransen, J McClain, A Harzman, BA Blakeney, J Grider, FL Christofi</i> Columbus, OH, East Lansing, MI, Richmond, VA, <i>The Ohio State University</i> Abstract 18H
	Sacral nerve stimulation inhibits the MAPK/NF-KB signaling pathway and promotes TREG-TH1/TH17 cell balance and self-renewal of enteric nervous system in TNBS-induced inflammation in rats <i>Y Meng, J Chen</i> Baltimore, MD, <i>Johns Hopkins University</i> Abstract 18I
	Enteric glia contribute to visceral hypersensitivity through interactions with nociceptors <i>W Morales-Soto, BD Gulbransen</i> East Lansing, MI, <i>Michigan State University</i> Abstract 18J

Sunday, August 18, 2019 continued

9:00–10:00 am	Young Investigator Forum • Presentations continued
	Pre-exposure to an enriched environment is protective against stress-induced viscerosomatic hypersensitivity <i>A Orock, J Love, C Ligon, AC Johnson, B Greenwood-Van Meerveld, Oklahoma City, OK, University of Oklahoma Health Sciences Center</i> Abstract 18K
	Symptom severity predicts short-term response to gastric electrical stimulation in children with refractory nausea and vomiting <i>DK Orsagh-Yentis, K Ryan, N Bali, K Vaz, D Yacob, C Di Lorenzo, PL Lu Columbus, OH, Nationwide Children's Hospital</i> Abstract 18L
	4D MRI allows for dynamic estimation of gastric motility in humans. <i>R Sclocco, C Nguyen, R Staley, H Fisher, A Mendez, V Napadow, B Kuo Charlestown, MA, Boston, MA, Massachusetts General Hospital, Harvard Medical School</i> Abstract 18M
	Impact of fecal bile acid diagnostic testing in 966 patients with chronic functional diarrhea: reduction in health care utilization, positive diagnosis and prediction of response to bile acid sequestrants <i>P Vijayvargiya, G Calderon, D Gonzalez, S Tawfic, S Batbold, H Saifuddin, P Duggan, V Melo, T Thomas, M Heeney, A Beyder, J Miller, Jr., K Valles, K Oyemade, J Fenner, V Chedid, M Camilleri Rochester, MN, Mayo Clinic College of Medicine and Science</i> Abstract 18N
	"First in man" routine patch clamp recordings in neurons and glia in isolated networks of human myenteric ganglia - A model of the human little brain <i>EC Villalobos-Hernandez, F Ochoa-Cortes, E Mazzotta, S Bergese, I Grants, S Cole, A Harzman, FL Christofi Columbus, OH, The Ohio State University</i> Abstract 18O
10:00–10:30 am	Break • Visit Exhibits
10:30 am–12:00 pm	ANMS Distinguished Lectures Moderators: <i>Jim Galligan, Satish Rao</i>
10:30–11:00 am	UES its journey from laboratory to clinic <i>Reza Shaker</i>
11:00–11:30 am	Bugs, guts, and brains: How your gut microbiota shapes your body and mind <i>Helen Raybould</i>
11:30 am–12:00 pm	A renaissance for 'myogenic' regulation of GI motility <i>Kenton Sanders</i>
12:00 pm	Adjourn

Poster Sessions

Friday • 6:00 PM—8:00 PM • Odd Numbers

Saturday • 11:45 AM—2:00 PM • Even Numbers

Poster No.

- 1 **Predictors of hospitalization for children with cyclic vomiting syndrome**
ZM Abdulkader, N Bali, K Vaz, D Yacob, C Di Lorenzo, PL Lu
Columbus, OH
Nationwide Children's Hospital, Ohio, State University
Abstract 19
- 2 **Trends and costs of hospitalization for children and adolescents with cyclic vomiting syndrome: 2015-2018**
ZM Abdulkader, N Bali, K Vaz, D Yacob, C Di Lorenzo, PL Lu
Columbus, OH
Nationwide Children's Hospital, Ohio State University
Abstract 20
- 3 **Altered lysophosphatidic acid receptor expression in chronic intestinal pseudo-obstruction**
MM Ahmadzai, R De Giorgio, BD Gulbransen
East Lansing, MI, Ferrara, Italy
Michigan State University
Abstract 21
- 4 **Efficacy and safety of DOR fundoplication in patients with severe gastroparesis and refractory gastroesophageal reflux disease**
I Al-Bayati, S Al-Obaidi, Y Romero, K Aguirre, B Davis, I Sarosiek, R McCallum
El Paso, TX
Texas Tech University Health and Science Center
Abstract 22
- 5 **Cesarean delivery and functional gastrointestinal disorders (FGID): Could an altered gut microbiome at birth increase the risk for FGID?**
CH Axelrod, S Gutierrez, M Saps, C Velasco
Davie, FL, Miami, FL, Cali, Colombia
University of Miami
Abstract 23
- 6 **Abnormal bolus reflux on impedance-pH monitoring independently predicts 3-year mortality in patients with idiopathic pulmonary fibrosis**
M Bailey, LF Borges, HJ Goldberg, K Hathorn, S Gavini, W Lo, WW Chan
Boston, MA, Dallas, TX
Brigham and Women's Hospital, Harvard Medical School
Abstract 24
- 7 **Characterization of anorectal manometry of children with attention deficit hyperactivity disorder (ADHD)**
C Baker, C Silvernale, C Zar-Kessler
Belmont, MA, Boston, MA
MassGeneral Hospital for Children
Abstract 25
- 8 **Clinical characteristics, trends and outcomes in inpatient pediatric cyclic vomiting syndrome in the United States**
C Baker, A Adejumo, B Kuo, C Zar-Kessler
Belmont, MA, Boston, MA
MassGeneral Hospital for Children
Abstract 26

Poster No.

- 9 **Demographics and associated diagnoses of readmission of pediatric cyclic vomiting syndrome hospitalizations in the United States**
C Baker, A Adejumo, C Zar-Kessler, B Kuo
Belmont, MA, Boston, MA
MassGeneral Hospital for Children
Abstract 27
- 10 **Does anorectal manometric parameters predict which patients expel a water-filled balloon using a commercial stool device following a failed balloon expulsion test?**
JR Baker, L Watts, K Collins, M Armstrong, B Nojkov, R Saad, S Menees, WD Chey
Newport, MI, Ann Arbor, MI
University of Michigan
Abstract 28
- 11 **Physiological responses to sacral nerve stimulation in rodent colon**
BB Barth, WM Grill, X Shen
Durham, NC
Duke University
Abstract 29
- 12 **A novel in vivo model of colonic aganglionosis using diphtheria toxin-mediated ablation of the enteric nervous system**
SM Bhawe, E Arceiro, C Baker, N Ho, AM Goldstein, R Hotta
Boston, MA
Harvard University
Abstract 30
- 13 **Abnormal enteric innervation and altered gut motility may contribute to post pull-through morbidity in Hirschsprung disease**
SM Bhawe, C Baker, E Arciero, M Ahmed, L Kim, N Ho, A Nair, AM Goldstein, R Hotta
Boston, MA
Harvard University
Abstract 31
- 14 **Multichannel electrogastrography distinguishes gastric slow wave spatiotemporal parameter differences in pediatric chronic nausea**
LA Bradshaw, S Somarajan, ND Muszynski, JD Olson, AC Russell, SA Acra
Nashville, TN
Vanderbilt University Medical Center
Abstract 32
- 15 **Effect of secretin on gastric accommodation, emptying, and symptoms in health: A randomized, controlled, cross-over trial**
J Brandler, LJ Miller, X Wang, P Vijayvargiya, K Arndt, I Busciglio, D Burton, WS Harmsen, A Acosta, M Camilleri
Rochester, MN, Scottsdale, AZ
Mayo Clinic College of Medicine and Science
Abstract 33

Poster Sessions

Friday • 6:00 PM—8:00 PM • Odd Numbers

Poster No.

- 16 Abnormal reflux on combined hypopharyngeal–esophageal impedance–pH testing predicts poorer health-related quality of life in laryngopharyngeal reflux patients**
JX Cai, S Salgado, D Sikavi, R Din, K Hathorn, W Lo, T Carroll, WW Chan
Boston, MA
Harvard Medical School **Abstract 34**
- 17 Proton pump inhibitor therapy reduces risk of repeat ablation for atrial fibrillation in patients with gastroesophageal reflux disease**
JX Cai, S Kapur, WW Chan
Boston, MA
Harvard Medical School
YIF Participant **Abstract 35**
- 18 Postreflux swallow-induced peristaltic wave index (PSPW) independently correlates with symptoms in laryngopharyngeal reflux patients**
JX Cai, S Salgado, R Din, D Sikavi, D Lee, TL Carroll, WW Chan
Boston, MA
Harvard Medical School **Abstract 36**
- 19 Tradipitant, a novel NK-1 receptor antagonist, significantly improved nausea and other symptoms of gastroparesis in a phase II trial**
JL Carlin, VR Lieberman, A Dahal, MS Keefe, C Xiao, G Birznieks, MH Polymeropoulos
Washington, DC
Vanda Pharmaceuticals, Inc. **Abstract 37**
- 20 Tradipitant, a novel NK-1 receptor antagonist, significantly improved nausea in both diabetic and idiopathic gastroparesis**
JL Carlin, MS Keefe, VR Lieberman, A Dahal, C Xiao, G Birznieks, MH Polymeropoulos
Washington, DC
Vanda Pharmaceuticals, Inc. **Abstract 38**
- 21 Clinical efficacy of per-oral endoscopic myotomy (POEM) for spastic esophageal disorders – a systematic review and meta-analysis**
S Chandan, BP Mohan, OC Chandan, LK Jha, HS Mashiana, AT Hewlett, MA Khashab
Omaha, NE, Tucson, AZ, Baltimore, MD
University of Nebraska Medical Center **Abstract 39**
- 22 Real-world evaluation of economic burden for diabetic gastroparesis in the US**
YJ Chen, Z Huang, M Luo, H Pang, C Almansa, G Dukes, HP Parkman
Cambridge, MA, Raleigh, NC, Philadelphia, PA
Takeda Pharmaceuticals **Abstract 40**

Saturday • 11:45 AM—2:00 PM • Even Numbers

Poster No.

- 23 Enteric glial MHC II contributes to T-lymphocyte activation in LPS stimulation**
AK Chow, BD Gulbransen
East Lansing, MI
Michigan State University **Abstract 41**
- 24 Immunoreactivity for the Na⁺/HCO₃⁻ cotransporter (NBCe1, SLC4A4) in pacemaker interstitial cells of Cajal is selectively reduced by knocking down SLC4A4 gene expression using an Etv1-Cre driver in mouse**
MG Colmenares Aguilar, A Mazzone, W Zhao, PR Strege, ST Eisenman, JM Silva, L Sha, GE Shull, MF Romero, G Farrugia, SJ Gibbons
Rochester, MN, Shenyang, LN, China, Cincinnati, OH
Mayo Clinic **Abstract 42**
- 25 Upper gastrointestinal symptoms are related to the kind of alcoholic beverage**
NF Cordova Valenzuela, JA Magaña León, A Delgado Moreno, FA Félix Téllez, AL Mateos Viramontes, AA Leó Martínez, JM Avendaño Reyes, AR Flores Rendón
Mexicali, BC, Mexico
Facultad de Medicina Universidad Autónoma de Baja California **Abstract 43**
- 26 Characterization of esophageal motility in children with operated esophageal atresia using high-resolution impedance manometry and pressure flow analysis**
O Courbette, T Omari, A Aspirot, C Faure
Montreal, QC, Canada, Adelaide, SA, Australia
University of Montreal **Abstract 44**
- 27 Role of the endocannabinoid system in the regulation of intestinal barrier function: Effects of diet**
H Cuddihy, J Cavin, WK MacNaughton, KA Sharkey
Calgary, AB, Canada
University of Calgary **Abstract 45**
- 28 The efficacy of celiac plexus block as a non-invasive procedure in treating median arcuate ligament syndrome (MALS) patients**
A Dada, S Alam, R Naga, S Usmani, M Nasri, H Mistry, A Suleman
Plano, TX, McKinney, TX
Emory University **Abstract 46**
- 29 Pharyngeal and upper esophageal sphincter motor dynamics during normal swallow**
A Damrongmanee, K El-Chammas, L Fei, H Zang, N Santucci, A Kaul
Cincinnati, OH
Cincinnati Children's Hospital Medical Center **Abstract 47**

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Poster No.

- 30 Efficacy of probiotic I3.1 symptomatic improvement in patients with lactose intolerance**
AD Cano Contreras, N Pérez y López, JI Minero Alfaro, VM Medina López, JU Reyes-Huerta
 Mexico City, Mexico
Universidad Autonoma de Mexico **Abstract 48**
- 31 Retrograde gastroesophageal intussusception despite fundoplication**
JK Deutsch, A Davis, MJ Sanchez
 New Haven, CT
Yale University **Abstract 49**
- 32 Enteric glia express the cytosolic DNA sensor sting**
C Dharshika, CM Waters, BD Gulbransen
 East Lansing, MI
Michigan State University **Abstract 50**
- 33 Ameliorating effects of sacral nerve stimulation for visceral hypersensitivity and mechanisms involving nerve growth factor and TRPV1 in rats with irritable bowel syndrome**
Y Dong, J Yin, J Chen
 Baltimore, MD
Johns Hopkins University **Abstract 51**
- 34 Sub-serosal interstitial cells of cajal contribute to nitrergic innervation and influence the excitability of longitudinal smooth muscle in the mouse proximal colon**
BT Drumm, BE Rembetski, SA Baker, KM Sanders.
 Reno, NV
University of Nevada, Reno School of Medicine **Abstract 52**
- 35 Frequency of manometry and esophagram abnormalities in jackhammer esophagus**
B Elger, AS Abdussalam, RS Gorantla, KS Nandipati, JS Stavas, SS Chandra
 Omaha, NE
Creighton University School of Medicine **Abstract 53**
- 36 Efficacy of nutrition intervention on key nutrients and fiber intake in patients with constipation and dyssynergic defecation**
CM Flatley, SS Satish Rao, R Parr, S Fiedler, J Anglin
 Augusta, GA
Augusta University **Abstract 54**
- 37 Epigenetic factors in enteric nervous system development and disease**
J Ganz, E Melancon, C Wilson, A Amores, P Batzel, M Strader, I Braasch, P Diba, J Kuhlman, J Postlethwait, J Eisen
 East Lansing, MI, Eugene, OR, Ames, IA
Michigan State University **Abstract 55**

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Poster No.

- 38 Transcutaneous vagal nerve stimulation improves symptoms, pain, and gastric emptying in patients with idiopathic gastroparesis**
AC Gottfried, E Poon Adler, N Fernandez-Becker, JO Clarke, A Habtezion, LA Nguyen
 Stanford, CA
Stanford University **Abstract 56**
- 39 Exploring the relationship between prematurity and functional gastrointestinal disorders in children**
S Gutierrez, C Axelrod, C Velasco, M Saps
 Miami, FL, Cali, Italy
Jackson Memorial Hospital, University of Miami **Abstract 57**
- 40 Acute colitis following chronic traumatic brain injury in mice induces persistent neurobehavioral deficits**
ME Hanscom, DJ Loane, T Shea-Donohue, AI Faden
 Baltimore, MD, Bethesda, MD, Dublin, Ireland.
YIF Participant **Abstract 58**
- 41 Measurement of trans-esophagogastric junction (EGJ) pressure gradients during straight leg raise (SLR) maneuver can augment evaluation of the EGJ barrier during esophageal HRM**
SL Hasak, V Hansalia, B Rogers, C Gyawali
 Saint Louis, MO
Washington University in St. Louis **Abstract 59**
- 42 Characterization of abdominal pain response to Rifaximin in patients with irritable bowel syndrome with diarrhea (IBS-D), by baseline (BL) pain severity**
Z Heimanson, A Lembo, BD Cash
 Bridgewater, NJ, Boston, MA, Houston, TX
Salix Pharmaceuticals **Abstract 60**
- 43 Rifaximin for improving abdominal pain and bloating symptoms in patients with irritable bowel syndrome with diarrhea (IBS-D) using modified definitions of pain response**
Z Heimanson, B Lacy, M Pimentel
 Bridgewater, NJ, Jacksonville, FL, Los Angeles, CA
Salix Pharmaceuticals **Abstract 61**
- 44 Decreased ileocecal junction pressure does not correlate with the presence of small intestinal bacterial overgrowth: A retrospective evaluation**
AA Herekar, YS Yan, JS Bhagatwala, SS Rao, AS Sharma
 Augusta, GA
Augusta University **Abstract 62**
- 45 Nestin-expressing cells isolated from ganglionic region of mice with Hirschsprung disease can give rise to functioning neurons**
R Hotta, SM Bhawe, M Ahmed, C Baker, EJ Arciero, N Ho, A Nair, AM Goldstein
 Boston, MA
Harvard Medical School **Abstract 63**

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Poster No.

- 46 Does etiology, prior therapy and operative time affect outcome of G-POEM in refractory gastroparesis? – A systematic review and meta-analysis**
LK Jha, S Chandan, BP Mohan, OC Chandan, AT Hewlett, I Bhat
 Omaha, NE, Tucson, AZ
University of Nebraska Medical Center **Abstract 64**
- 47 High stress level is associated with low motivation, confidence and rating of social support for weight management in participants in a clinical trial on pharmacologic management of obesity**
HC Kadouh, MM Clark, S Kalsy, K Grothe, K Graszner, H Halawi, V Chedid, M Camilleri
 Rochester, MN
Mayo Clinic College of Medicine and Science **Abstract 65**
- 48 Association of obesity class with gastric motor functions, appetite measures, gut hormones and body composition in individuals with obesity**
HC Kadouh, H Halawi, V Chedid, D Burton, M Camilleri
 Rochester, MN
Mayo Clinic College of Medicine and Science **Abstract 66**
- 49 Gastric dysmotility and its relationship to upper gastrointestinal symptoms in patients with long-standing diabetes mellitus**
T Kamiya, H Fukuta, S Osaga, H Hagiwara, M Shikano, E Kubota, H Kataoka
 Nagoya, Japan
Nagoya City University Graduate School of Medical Sciences **Abstract 67**
- 50 Effects of comprehensive self-management intervention on extraintestinal pain, fatigue, and sleep in adults with IBS**
KK Kamp, KR Weaver, LB Sherwin, SK Hwang, PL Yang, BL Burr, K Cain, MM Heitkemper
 Seattle, WA, Baltimore, MD, Baltimore, MD, Yangsan, South Korea
University of Washington
YIF Participant **Abstract 68**
- 51 Real-world analysis of symptoms, diagnostic patterns, and provider perspective on acute hepatic porphyria**
J Ko, S Murray, M Merkel, C Karki, K Krautwurst, R Mustafina, S Agarwal
 Cambridge, MA, Mahwah, NJ
Alnylam Pharmaceuticals **Abstract 69**
- 52 The patient odyssey to confirmed acute hepatic porphyria diagnosis: Clinical characteristics and healthcare utilization of patients preceding diagnosis of acute hepatic porphyria**
J Ko, S Rudnick, H Pedro, M Merkel, A Simon, B Jonson, V Noxon, A Cole, S Agarwal
 Cambridge, MA, Winston, Salem, NC, Hackensack, NJ
Alnylam Pharmaceuticals **Abstract 70**

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Poster No.

- 53 'Non-pathological' reflux contributes to chronic cough**
M Lalehzari, S Chaudhuri, M Nguyen, M Gaeta, R Ryabtsev, A Masoud, M Sanchez
 New Haven, CT
Yale University **Abstract 71**
- 54 The association between BMI and cough severity in patients referred for esophageal manometry testing**
M Lalehzari, S Chaudhuri, M Nguyen, M Gaeta, R Ryabtsev, A Masoud, M Sanchez
 New Haven, CT
Yale University **Abstract 72**
- 55 The association between esophageal dysmotility and cough**
M Lalehzari, S Chaudhuri, M Gaeta, M Nguyen, R Ryabtsev, A Masoud, M Sanchez
 New Haven, CT
Yale University **Abstract 73**
- 56 Lower basal esophagogastric junction pressures associated with regurgitation severity**
M Lalehzari, S Chaudhuri, M Gaeta, M Nguyen, R Ryabtsev, A Masoud, M Sanchez
 New Haven, CT
Yale University **Abstract 74**
- 57 GC-C agonism with linaclotide attenuates chronic stress-induced colonic hypersensitivity independently of elevated CRF expression in the central amygdala**
CO Ligon, G Hannig, P Ge, C Higgins, B Greenwood-Van Meerveld
 Oklahoma City, OK, Cambridge, MA
University of Oklahoma Health Sciences Center **Abstract 75**
- 58 Inter-observer reliability for stool consistency between the bristol stool scale and the brussels infant and toddler stool scale (BITSS) when using Rome IV criteria in younger children**
A Llanos-Chea, CA Velasco-Benitez, M Saps
 Miami, FL, Cali, Italy
University of Miami **Abstract 76**
- 59 Baseline impedance on high-resolution esophageal impedance-manometry correlates with impedance parameters of reflux in lung transplantation**
W Lo, V Rangan, HJ Goldberg, WW Chan
 Boston, MA
Brigham and Women's Hospital, Harvard Medical School **Abstract 77**
- 60 Gastroesophageal reflux is associated with chronic rejection after lung transplantation independent of underlying pulmonary physiology**
W Lo, HJ Goldberg, WW Chan
 Boston, MA
Brigham and Women's Hospital, Harvard Medical School **Abstract 78**

Poster Sessions

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Poster No.

- 61 Obesity is independently associated with increased risk of fecal incontinence and rectal hyposensitivity**
N Lodhia, L Horton, A Goldin, W Chan
Boston, MA
Harvard School of Medicine **Abstract 79**
- 62 Clinical phenotypes of GERD patients non-responder to double doses of PPIs: A prevalence study based on esophageal pH monitoring results**
LF Pineda, AJ Acuña, AJ Luquez, LM Moya, AM Guio
Bogotá, Colombia
Universidad Militar **Abstract 80**
- 63 Influence of high fat diet on the enteric nervous system during pregnancy**
F Markovic, K Kennedy, D Sloboda, E Ratcliffe
Burlington, ON, Canada, Hamilton, ON, Canada
McMaster University **Abstract 81**
- 64 Distribution of transient receptor potential vanilloid type 2 channel in rat gastrointestinal tract: alteration in TNBS-induced colitis**
K Matsumoto, S Kato
Kyoto, Japan
Kyoto Pharmaceutical University **Abstract 82**
- 65 Mechanotransduction in enteric glia may cause direct presynaptic facilitation of non-cholinergic neuromuscular contractions**
E Mazzotta, E Villalobos-Hernandez, I Grants, So Bergese, B Gulbransen, J McClain, A Harzman, B Blakeney, J Grider, F Christofi
Columbus, OH
The Ohio State University
YIF Participant **Abstract 83**
- 66 Neuroanatomical and connectivity abnormalities identified by brain MRI analysis in CVS patients with and without marijuana use**
RW McCallum, M Ramirez, I Sarosiek, H Sandoval, C Mullins, J Gavito, V Calhoun, T Davis
El Paso, TX, Albuquerque, NM, Lubbock, TX
Texas Tech University Health Science Center **Abstract 84**
- 67 Evidence for the abnormal anchoring between the lower esophageal sphincter and crural diaphragm in patients with achalasia esophagus**
RK Mittal, M Caplin, A Zifan
La Jolla, CA, San Diego, CA
University of California San Diego **Abstract 85**
- 68 Electrophysiological and mechanical characteristics of rectal compliance and role of enteric nervous system and interstitial cells in gastrointestinal smooth muscle**
SB Ryoo, TS Sung, RD Corrigan, J Lee, HM Kim, D Koh
Seoul, Korea, Reno, NV, Wonju, Korea
Seoul National University College of Medicine **Abstract 86**

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Poster No.

- 69 Importance of CGRP-mediated mechanisms in visceral organ cross sensitization**
EN Mohammadi, CO Ligon, K Mackenzie, J Stratton, B Greenwood-VanMeerveld
Oklahoma City, OK, Redwood City, CA
University of Oklahoma **Abstract 87**
- 70 Long-term symptom improvements after recommending gastroparesis diets in patients with suspected gastroparesis in relation to gastric emptying on wireless motility capsule testing**
B Moshiree, B Kuo, A Lee, H Parkman, L Nguyen, I Sarosiek, S Rao, J Wo, R McCallum, M Schulman, W Hasler
Charlotte, NC, Boston, MA, Ann Arbor, MI, Philadelphia, PA, Palo Alto, CA, El Paso, TX, Augusta, GA, Indianapolis, IN, Largo, FL
University of North Carolina, Atrium Health **Abstract 88**
- 71 Initial experience with abdominal massage during pediatric colonic manometry**
S Mostamand, L Busing, A Sicolo, J Punati, TF Danialifa
Los Angeles, CA
Children's Hospital Los Angeles **Abstract 89**
- 72 Clinical phenotypic presentation of rectal prolapse varies with age**
L Neshatian, A Lee, SL Wallace, E Enemchukwu, LJ Rogo-Gupta, K Mishra, P Garcia, L Nguyen, B Gurland
Stanford, CA
Stanford School of Medicine **Abstract 90**
- 73 Symptom severity predicts short-term response to gastric electrical stimulation in children with refractory nausea and vomiting**
DK Orsagh-Yentis, K Ryan, N Bali, K Vaz, D Yacob, C Di Lorenzo PL Lu
Columbus, OH
Nationwide Children's Hospital
YIF Participant **Abstract 91**
- 74 Resilience in irritable bowel syndrome is lower compared to the general population and other chronic gastrointestinal conditions**
CH Parker, BD Naliboff, W Shih, AP Presson, L Kilpatrick, C Liu, L Chang
Toronto, ON, Canada, Los Angeles, CA, Loma Linda, CA, Salt Lake City, UT
University of Toronto **Abstract 92**
- 75 Post-fundoplication gastroparesis: Similarities and differences to idiopathic and diabetic gastroparesis**
HP Parkman, KP Yates, RW McCallum, K Koch, W Hasler, L Nguyen, J Clarke, B Kuo, I Sarosiek, T Abell, M Grover, G Farrugia, PJ Pasricha, J Tonascia, F Hamilton
Philadelphia, PA, Baltimore, MD, El Paso, TX, Wake Forest, NC, Ann Arbor, MI, Stanford, CA, Boston, MA, St. Louis, LA, Rochester, MN, Bethesda, MD
Temple University **Abstract 93**

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Poster No.

- 76 Economic burden of idiopathic gastroparesis in the United States**
HP Parkman, YJ Chen, Z Huang, C Almansa, H Pang, M Luo, G Dukes
 Philadelphia, PA, Cambridge, MA, Raleigh, NC
Temple University **Abstract 94**
- 77 Psychometric evaluation of the ANMS GCSI-DD in patients with idiopathic or diabetic gastroparesis**
HP Parkman, S Lavoie, DA Revicki, RM Speck, J Chen, B Kuo, M Camilleri
 Bethesda, MD, Cambridge, MA, Boston, MA, Rochester, MN
Temple University **Abstract 95**
- 78 Early postnatal malnutrition causes gastrointestinal dysmotility that is sexually dimorphic**
GA Preidis, KG Soni, PT Edwards, T Halder, ME Conner
 Houston, TX
Baylor College of Medicine & Texas Children's Hospital **Abstract 96**
- 79 Clinical utility of advanced impedance metrics of reflux in the pre-lung transplant population**
V Rangan, W Lo, HJ Goldberg, WW Chan
 Boston, MA
Brigham and Women's Hospital, Harvard Medical School of Medicine **Abstract 97**
- 80 A new treatment regimen achieves effective outcomes in rumination syndrome: A single-center experience**
A Robles, H Quezada, YA Romero, E Tatro, R McCallum
 El Paso, TX
Texas Tech University Health Science Center **Abstract 98**
- 81 4D MRI allows for dynamic estimation of gastric motility in humans**
R Sclocco, C Nguyen, R Staley, H Fisher, A Mendez, Napadow, B Kuo
 Charlestown, MA, Boston, MA
Massachusetts General Hospital, Harvard Medical School
YIF Participant **Abstract 99**
- 82 Patient perspectives on short-course pharmacotherapy: barriers and facilitators to rifaximin adherence**
LB Sherwin, CB Deroche, M Matteson-Kome, M Bechtold, BJ Wakefield, T Ruppar
 Columbia, MO, Chicago, IL
University of Missouri **Abstract 100**
- 83 Cancelled**
- 84 Opioids interfere with deglutitive inhibition assessed by response to multiple rapid swallows during high-resolution esophageal manometry**
DL Snyder, LR Valdovinos, J Horsley-Silva, MF Vela, MD Crowell
 Scottsdale, AZ
Mayo Clinic **Abstract 102**

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Poster No.

- 85 Effects of esophageal provocation on aerodigestive reflexes in infants following gastrostomy tube placement**
NA Swiader, N Nazaryan, S Nawaz, C Collins, K Hasenstab, S Jadcherla
 Reynoldsburg OH, Columbus, OH
Nationwide Children's Hospital **Abstract 103**
- 86 Patients with irritable bowel syndrome (IBS) consume a considerably healthier diet than the general US population**
TH Taft, L Guadagnoli, B Doerfler, EA Mutlu
 Chicago, IL
Northwestern University Feinberg School of Medicine **Abstract 104**
- 87 Feasibility and acceptability of health coaching for patients with irritable bowel syndrome**
KN Tomasino, S Peterson, AU Pandit, SK Quinton, SW Kinsinger
 Chicago, IL, Maywood, IL
Northwestern University Feinberg School of Medicine **Abstract 105**
- 88 Environmental parkinsonism induces stressless response in neurons of the dorsal motor nucleus of the vagus**
AR Travagli, C Bove
 Elizabethtown, PA, Hershey, PA
Penn State College of Medicine **Abstract 106**
- 89 Wireless motility capsule demonstrates changes in colon contractility during fiber administration compared to placebo**
CD Velez, A Bailey, B Kuo, K Staller
 Boston, MA
Harvard University **Abstract 107**
- 90 'First in man' routine patch clamp recordings in neurons and glia in isolated networks of human myenteric ganglia – A model of the human little brain**
EC Villalobos-Hernandez, F Ocho- Cortes, E Mazzotta, S Bergese, I Grants, S Cole, A Harzman, F Christofi.
 Columbus, OH
The Ohio State University
YIF Participant **Abstract 108**
- 91 Aquaporin channel expression in normal human colon and terminal ileum mucosa and preliminary measurements in patients with IBS**
XJ Wang, V Chedid, P Carlson, A Taylor, S McKinzie, I Busciglio, M Camilleri
 Rochester, MN
Mayo Clinic College of Medicine and Science **Abstract 109**

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Poster No.

- 92 Descending perineum syndrome causes ~10% of constipation in 297 adults in referral center**
XJ Wang, V Chedid, P Vijayvargiya, M Camilleri
Rochester, MN
Mayo Clinic College of Medicine and Science
Abstract 110
- 93 Enriched housing alleviates pain and visceral hypersensitivity in male and female rats**
JH Winston
Galveston, TX
University of Texas Medical Branch
Abstract 111
- 94 The relationship between esophageal acid exposure and ineffective esophageal motility**
T Yamasaki, T Kondo, T Kono, K Tozawa, T Tomita, T Oshima, H Fukui, H Miwa
Nishinomiya, Japan
Hyogo College of Medicine
Abstract 112
- 95 Digital rectal examination in the evaluation of neuropathy in patients with anorectal disorders**
Y Yan, Q Gu, A Herekar, T Patcharatrakul, A Sharma, Q Wan, S Rao
Augusta, GA
Augusta University
Abstract 113
- 96 Enteric neuronal aggregation of α -synuclein causes colonic dysmotility**
NK Yelleswarapu, F Manfredsson, JJ Galligan
Okemos, MI, Grand Rapids, MI, East Lansing, MI
Michigan State University
Abstract 114

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Poster No.

- 97 Comparison between direct vagal nerve stimulation and noninvasive auricular vagal nerve stimulation for opioid-induced constipation**
Y Zhang, X Lin, J Chen
Baltimore, MD
Johns Hopkins University
Abstract 115
- 98 The role of $\text{Na}^+/\text{HCO}_3^-$ co-transporter activity in electrical slow waves of the mouse intestine**
W Zhao, L Zhang, L Ermilov, A Mazzone, ST Eisenman, MG Colmenares Aguilar, JM Silva, GE Shull, MF Romero, L Sha, G Farrugia, SJ Gibbons
Rochester, MN, Cincinnati, OH, Shenyang, LN, China
Mayo Clinic
Abstract 116
- 99 Type II achalasia is increasing in incidence**
MJ Zhou, DE Freedberg, D Markowitz, D Jodorkovsky
New York, NY
Columbia University Medical Center
Abstract 117
- 100 On the use of pressure-CSA loop analysis in the assessment of anal sphincter muscle dysfunction in patients with fecal incontinence**
A Zifan, RK Mittal, J Swartz, DC Kunkel, LJ Tuttle
La Jolla, CA, San Diego, CA
University of California San Diego
Abstract 118
- 101 Swallow-induced esophageal distension patterns during peristalsis in patients with functional dysphagia: An unsupervised analysis**
A Zifan, P Castillo, Y Youn, RK Mittal
La Jolla, CA, San Diego, CA, Seoul, Korea
University of California San Diego
Abstract 119

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