

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



KU MEDICAL CENTER
The University of Kansas

Swissôtel, Chicago, Illinois

PROGRAM

Thursday, August 15, 2019

3:00 pm–6:00 pm	Registration • Vevey Foyer, 2 nd Floor
3:00 pm–6:00 pm	Exhibitor Set Up • Vevey Foyer, 2 nd Floor

Friday, August 16, 2019

7:00 am–5:30 pm	Registration • Vevey Foyer, 2 nd Floor
7:00 am–7:45 am	Breakfast • Visit Exhibits • Vevey Foyer, 2 nd Floor
7:45–8:00 am	Welcome • <i>John Pandolfino</i> • Vevey Welcome • <i>Beverley Greenwood-Van Meerveld</i> • Montreux

8:00–10:00 am | **Concurrent Sessions** | **Esophagus** • Vevey | **Allied Health Professionals Session** • Montreux

8:00–10:00 am	Esophagus • Vevey Moderators: <i>Dustin Carlson, Rena Yadlapati</i>
8:00–8:25 am	Non-obstructive dysphagia: Phenotyping the patient <i>Dustin Carlson</i>
8:25–8:50 am	Laryngopharyngeal reflux: Utility or futility of diagnostic tools <i>Rena Yadlapati</i>
8:50–9:15 am	Mucosal integrity testing <i>Michael Vaezi</i>
9:15–9:40 am	Office-based esophageal tissue sampling in eosinophilic esophagitis <i>Ikuo Hirano</i>
9:40–10:00 am	Panel Discussion
10:00–10:30 am	Break • Visit Exhibits • Vevey Foyer, 2 nd Floor

8:00–10:00 am	Allied Health Professionals Session • <i>co-sponsored by Diversatek Healthcare and Laborie</i> • Montreux Moderator: <i>Jason Baker</i>
8:00–8:30 am	Anorectal manometry: What, why, how <i>Jason Baker, Dawn Vickers</i>
8:30–9:00 am	Physical therapy management of constipation and fecal incontinence <i>Vonna Karoghlanian</i>
9:00–9:30 am	Esophageal testing beyond endoscopy: FLIP–impedance planimetry <i>John Pandolfino</i>
9:30–10:00 am	Panel Discussion
10:00–10:30 am	Break • Visit Exhibits • Vevey Foyer, 2 nd Floor

program continued

PROGRAM

Friday, August 16, 2019 continued

10:30 am–12:30 pm	Stomach/Small Bowel • Vevey Moderators: <i>Braden Kuo, Henry Parkman</i>
10:30–10:55 am	Gastroparesis: Update on mechanisms from the Gastroparesis Consortium <i>Henry Parkman</i>
10:55–11:20 am	New frontiers in studying motility of the stomach and small intestine <i>Braden Kuo</i>
11:20–11:45 am	Emerging capsule technologies for functional gastrointestinal (FGI) 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>
12:10–12:30 pm	Panel Discussion

Parallel Lunches • Choose One • Visit Exhibits

12:30–1:15 pm	Lunch • no speaker • Zurich • Visit Exhibits
12:30–1:15 pm	Lunch Symposium • sponsored by Alnylam (non-CME) • Please sign in at this luncheon • Montreux Medical Mystery: A case of unexplained, severe, diffuse, abdominal pain <i>Gregory Sayuk, Manisha Balwani</i>

1:15–2:45 pm	Anorectal Disorders • Vevey 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 & how to assess <i>Richard Saad</i>
2:05–2:30 pm	Review: Techniques utilized to assess colon motility in individuals with constipation <i>Darren Brenner</i>
2:30–2:45 pm	Panel Discussion
2:45–3:00 pm	Break • Visit Exhibits • Vevey Foyer, 2nd Floor

program continued

PROGRAM

Friday, August 16, 2019 continued

3:00–4:30 pm	Mind–Medicine Interplay in Gastroenterology • Vevey Moderators: <i>Laurie Keefer, Tiffany Taft</i>
3:00–3:25 pm	New concepts in the mechanisms of brain–gut interactions <i>Kirsten Tillisch</i>
3:25–3:50 pm	A 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 • Marijuana and Opioids • 4:30–5:30 pm • Women in Neurogastroenterology • 4:00–6:00 pm

4:30–5:30 pm	Marijuana and Opioids • Vevey Moderator: <i>John Pandolfino</i>
4:30–4:55 pm	The endocannabinoid system, cannabis, opioids, & 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

4:00–6:00 pm	Women in Neurogastroenterology • co-sponsored by Ironwood Pharmaceuticals, Inc. • Montreux 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>
4:35–5:00 pm	Work–life integration <i>Linda Nguyen</i>
5:00–5:15 pm	Women in Neurogastroenterology Survey results <i>Lin Chang</i>
5:15–5:50 pm	Panel discussion with representatives from academia and private practice, followed by a group Q & A <i>Lin Chang, Beverley Greenwood-Van Meerveld, Alben Halpert, 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

PROGRAM

Friday, August 16, 2019

7:00 am–5:00 pm	Registration • Vevey Foyer, 2 nd floor
6:00–8:00 pm	Poster Session • Welcome Reception • Zurich

Saturday, August 17, 2019

7:00 am–5:00 pm	Registration • Vevey Foyer, 2 nd floor	
7:00–7:45 am	Breakfast • Visit Exhibits • Vevey Foyer, 2 nd floor	
7:45–8:00 am	Welcome • John Pandolfino • Montreux	Welcome • Beverley Greenwood-Van Meerveld • Vevey
8:00–9:30 am Concurrent Sessions	Concurrent Session 1 • Montreux Neurodevelopmental programming of the GI tract Moderators: <i>Kara Margolis, Shanthi Srinivasan</i>	Concurrent Session 2 • Vevey 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
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 Abstract 2	Pre-exposure to an enriched environment blocks the development of 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 Abstract 4
9:30–10:00 am	Break • Visit Exhibits • Vevey Foyer, 2 nd floor	Break • Visit Exhibits • Vevey Foyer, 2 nd floor

program continued

PROGRAM

Saturday, August 17, 2019 continued

10:00–11:45 am Concurrent Sessions	Concurrent Session 1 • Montreux New advances in behavioral treatments for GI diseases <i>Moderators: Laurie Keefer, Jeffrey Lackner</i>	Concurrent Session 2 • Vevey Gut neurogenesis: What's the latest <i>Moderators: 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>Jaime 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 Kulkarni</i>
10:40–11:00 am	Predictors of the placebo response in irritable bowel syndrome <i>Sarah Ballou</i>	Gene environment interactions and neural plasticity <i>Robert Heuckeroth</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> Abstract 5	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> Abstract 8
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> Abstract 6	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> YIF Participant Abstract 9
11:30–11:45 am	Assessment of the impact of introducing fecal bile acid diagnostic test for bile acid diarrhea in 1,077 patients in clinical practice and on 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</i> Rochester, MN <i>Mayo Clinic College of Medicine and Science</i> YIF Participant Abstract 7	Role of muscularis macrophages in the 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> Abstract 10
11:45 am–2:00 pm	Poster Session • Lunch • Zurich	

program continued

PROGRAM

Saturday, August 17, 2019 continued

2:00–3:30 pm Concurrent Sessions	Concurrent Session 1 • Montreux Sex differences: Are they important in the control of the GI tract Moderators: <i>Lin Chang, Linda Nguyen</i>	Concurrent Session 2 • Vevey Food intolerances: Laboratory to table Moderators: <i>Bethany Doerfler, Helen Raybould</i>
2:00–2:20 pm	The role of sex and puberty in functional gastrointestinal 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	Sexual dimorphic epigenetic regulation of 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 • Vevey Foyer, 2 nd floor	Break • Visit Exhibits • Vevey Foyer, 2 nd floor
4:00–5:45 pm Concurrent Sessions	Concurrent Session 1 • Montreux Next generation therapeutics: Targeting microbiology, life style, and host factors Moderators: <i>Eammon Quigley, Tamas Ordog</i>	Concurrent Session 2 • Vevey Neuroinflammation and bowel dysfunction Moderators: <i>Fievos Christofi, Meenakshi Rao</i>
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	Cannabis and 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 acting, highly selective, full agonist of the cannabinoid type 2 receptor (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 Grubišić, 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

PROGRAM

Saturday, August 17, 2019 continued

5:30–5:45 pm	<p>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</p>	<p>Enteric glia contribute to visceral hypersensitivity through interactions with nociceptor signaling <i>W Morales-Soto, BD Gulbransen</i> East Lansing, MI <i>Michigan State University</i> YIF Participant Abstract 18</p>
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Concurrent Theme Symposiums • Visceral Pain • 6:00–7:00 pm • Gastroparesis • 6:00–7:30 pm

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

program continued

Sunday, August 18, 2019

7:00–10:00 am	Registration • Vevey Foyer, 2 nd floor
7:00–8:00 am	Breakfast • Visit Exhibits • Vevey Foyer, 2 nd floor
8:00–9:00 am	W. Jerry Dodds, MD and Sushil K. Sarna, PhD Lectureship • Vevey 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 Michael Camilleri
9:00–10:00 am 4 min sound bites	Young Investigator Presentations • Vevey Moderators: <i>Brian Gulbransen, Maria Vazquez Roque</i> , Co-Chairs, Young Investigator Forum
	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> 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 Grubišić, V Bali, DE Fried, HK Eltzschig, MS Mazei-Robison, BD Gulbransen</i> East Lansing, MI, Houston, TX, Michigan State University Abstract 18D
	Acute colitis following chronic traumatic brain injury in mice induces persistent neurobehavioral deficits <i>ME Hanscom, DJ Loane, T Shea-Donoue, Al 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 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

PROGRAM

Sunday, August 18, 2019 continued

9:00–10:00 am	Young Investigator Presentations • Vevey continued
	<p>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</p>
	<p>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> Abstract 18K</p>
	<p>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</i> Columbus, OH, <i>Nationwide Children's Hospital</i> Abstract 18L</p>
	<p>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</i> Charlestown, MA, Boston, MA, <i>Massachusetts General Hospital, Harvard Medical School</i> Abstract 18M</p>
	<p>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</i> Rochester, MN, <i>Mayo Clinic College of Medicine and Science</i> Abstract 18N</p>
	<p>"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</i> Columbus, OH, <i>The Ohio State University</i> Abstract 18O</p>
10:00–10:30 am	Break • Visit Exhibits • Vevey Foyer, 2 nd floor
10:30 am–12:00 pm	ANMS Distinguished Lectures • Vevey Moderators: <i>Jim Galligan, Satish Rao</i>
10:30–11:00 am	<p>UES journey from the laboratory to clinic <i>Reza Shaker</i></p>
11:00–11:30 am	<p>Bugs, guts and brains: Interactions of the gut microbiota with gut epithelium and nerves <i>Helen Raybould</i></p>
11:30 am–12:00 pm	<p>A renaissance for 'myogenic' regulation of GI motility <i>Kenton Sanders</i></p>
12:00 pm	Adjourn

Patient Education Conference, next page
 Poster Sessions, begin on page after the Patient Education Conference

ANMS Patient Education Conference

Sunday, August 18, 2019 • 8:00 am – 12:00 pm • Montreux

8:00–8:30 am	Registration and Breakfast
8:30–8:40 am	Welcome • <i>Linda Nguyen</i>
8:40–9:10 am	Gastroparesis & functional dyspepsia <i>Linda Nguyen</i>
9:10–9:40 am	Irritable bowel syndrome (IBS) & small intestinal bacterial overgrowth (SIBO) <i>William Chey</i>
9:40–10:10 am	Break • Q & A with speakers
10:10–10:40 am	How to navigate eating <i>Bethany Doerfler</i>
10:40–11:10 am	Exploring brain–gut therapies <i>Tiffany Taft</i>
11:10–11:40 am	Stories that matter: The patient's voice • Gastroparesis: <i>Melissa Adams VanHouten</i> • Irritable bowel syndrome: <i>Ceciel Rooker</i>
11:40 am–12:00 pm	Q & A (all speakers)

Poster Sessions, begin next page



POSTER SESSIONS

FRIDAY • 6:00 PM–8:00 PM | SATURDAY • 11:45 AM–2:00 PM

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

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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**

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 Cuddihey, 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**

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, Dublin, Ireland, Bethesda, MD,
University of Maryland
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**

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Poster No.

- 45 Nestin-expressing cells isolated from ganglionic region of mice with Hirschsprung disease can give rise to functioning neurons**
R Hotta, SM Bhave, M Ahmed, C Baker, EJ Arciero, N Ho, A Nair, AM Goldstein
Boston, MA
Harvard Medical School **Abstract 63**
- 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**

Poster No.

- 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**
- 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**

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Poster No.

- 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
- 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
Instituto Gutmedica Bogota
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

Poster No.

- 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
- 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 Siculo, 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

POSTER SESSIONS

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Poster No.

- 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**
- 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**

Poster No.

- 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 Rupp
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**
- 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**

POSTER SESSIONS

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Poster No.

- 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**
- 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**

Poster No.

- 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**
- 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**