

**Prisma Health/USC FACULTY  
CURRICULUM VITAE**

**Date: September, 2020**

**Name:** Jonathan E. Markowitz

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Prisma Health Children's Hospital—Upstate  
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**Education (Beginning with Baccalaureate Degree):**

**Institution/Location:** The College of William and Mary, Williamsburg, VA  
**Years:** 1987-1991  
**Degree/Date:** B.S. / May 16, 1991  
**Field of Study:** Psychology

**Institution/Location:** University of South Carolina, Columbia, SC  
**Years:** 1991-1995  
**Degree/Date:** M.D. / May 12, 1995  
**Field of Study:** Medicine

**Institution/Location:** University of Pennsylvania, Philadelphia, PA  
**Years:** 1999-2003  
**Degree/Date:** M.S. / May 14, 2003  
**Field of Study:** Clinical Epidemiology

**Residencies or Post Doctoral Training:**

**Institution/Location:** Resident in Pediatrics, The Children's Hospital of Philadelphia  
**Dates:** 6/20/1995-6/30/1998

**Institution/Location:** Fellow in Pediatric Gastroenterology, The Children's Hospital of Philadelphia  
**Dates:** 7/1/1998-6/30/2001

**Specialty/Board Certification:**

American Board of Pediatrics	Date:
American Board of Pediatrics,	10/28/1998
Sub-board of Pediatric Gastroenterology	8/13/2001, 9/3/2008

**Licensure:**

Pennsylvania	Date:
South Carolina	1995-2006
	2005-present

**Faculty Appointments:**

<u>Years</u>	<u>Rank</u>	<u>Institution</u>	<u>Department</u>
1995-2001	Clinical Instructor	University of Pennsylvania	Pediatrics

2001-2006	Assistant Professor	University of Pennsylvania	Pediatrics
2007-2012	GHS Associate Professor	University of South Carolina School of Medicine-Columbia	Pediatrics
2012-2015	GHS Professor	University of South Carolina School of Medicine-Columbia	Pediatrics
2012-2014	Associate Professor	University of South Carolina School of Medicine-Greenville	Pediatrics
2014-present	Professor	University of South Carolina School of Medicine-Greenville	Pediatrics
2015-present	Clinical Professor	Clemson University School of Health Research	

#### **Administrative Appointments:**

<u>Years</u>	<u>Position</u>	<u>Institution</u>	<u>Department</u>
2002-2006	Course Director PED 334 (Ped GI Elective)	University of Pennsylvania	Pediatrics
2002-2006	Director, Inpatient Gastroenterology	The Children's Hospital of Philadelphia	GI/Nutrition
2006-2009	Associate Director, Residency Program	Greenville Health System	Pediatrics
2009-2018	Division Chief	Greenville Health System	Pediatric Gastroenterology
2009-2018	Director, Pediatric Endoscopy	Greenville Health System	Pediatrics
2018-present	Vice Chair for Academic Affairs	Prisma Health-Upstate/ University of South Carolina School of Medicine-Greenville	Pediatrics

#### **Hospital Appointments/Privileges:**

<u>Dates</u>	<u>Active</u>	<u>Position</u>	<u>Institution</u>
1998-2002	No	Staff Pediatrician	Chester County Hospital
2001-2006	No	Attending Physician	The Children's Hospital of Philadelphia
2006-present	Yes	Attending Physician	Greenville Health System/Prisma Health-Upstate

#### **Other Experience:**

<u>Years</u>	<u>Position</u>	<u>Institution</u>	<u>Department</u>
1999-2001	Fellow in Clinical Epidemiology	University of Pennsylvania	Biostatistics & Epidemiology

#### **Membership in Professional/Scientific Societies (include offices held):**

##### **National Societies**

- American College of Gastroenterology  
Member, Research Committee (2013-present)
- American Gastroenterological Association
- Children's Digestive Health and Nutrition Foundation  
Member, IBD Scientific Advisory Board
- Crohn's and Colitis Foundation of America  
Member, National Patient Education Committee (2003-2006)  
Co-chair, Working Group on the Prevention of Post-operative Recurrence of Crohn's Disease

(2003-2004)

Member, National Pediatric Affairs Committee (2008-2012)

Abstract Review Committee, Advances in Inflammatory Bowel Disease Conference (2012-2013)

North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition

Member, IBD Committee (2003-2006)

Chair, Ad hoc Committee to Develop a Universal IBD Patient Notebook (2003)

Invited Discussant, First Annual Gastrointestinal Eosinophilic Research Symposium (2006)

Member, Maintenance of Certification Committee (2017-present)

Fellow, American Academy of Pediatrics

American Partnership for Eosinophilic Disorders

Member, Medical Advisory Panel (2009-present)

Chair, Education Committee (2011-2012)

Improve Care Now Collaborative for Improvement

Member (2013-present)

Physician Leader (2013-2015)

### **Regional Societies**

Carolinas Eosinophilic Esophagitis Collaborative

Co-Founder and member (2014-present)

### **Extramural Research:**

As site PI:

1. 2008-2009 An efficacy and safety study of reslizumab (CTX55700) in the treatment of eosinophilic esophagitis in subjects aged 5 to 18 years. Sponsor: Ception/Cephalon Therapeutics
2. 2009- An Open-Label Safety and Efficacy Study of Reslizumab (CEP-38072) for the Treatment of Pediatric Subjects with Eosinophilic Esophagitis Who Completed Study Res 5 0002. Sponsor: Cephalon Therapeutics
3. 2009-2010 MPI-101-01 Oral Viscous Budesonide Suspension (MB-7) in Subjects with Eosinophilic Esophagitis: A Randomized, Placebo-Controlled, Dose-Ranging Study in Children and Adolescents. Sponsor: Meritage Pharma
4. 2009-2018 A Multicenter, Prospective, Long-term, Observational Registry of Pediatric Patients with Inflammatory Bowel Disease (DEVELOP). Sponsor: Centocor
5. 2011-2013 Procurement of Blood Samples from Pediatric Subjects for Use in the Development of Gastrointestinal Disease Tests (10IBD09). Sponsor: Prometheus Laboratories
6. 2012-2015 Oral Budesonide Suspension (OBS) in Adolescent and Young Adult Subjects (12-25 Years of Age) With Eosinophilic Esophagitis: A Phase II, Randomized, Double-Blind, Placebo-Controlled Study With an Open-Label Extension
7. 2012-2019 A Compassionate Use of Reslizumab (CEP-38072) for the Treatment of Pediatric Subjects with Eosinophilic Esophagitis Who Completed Studies Res 5 0002 and Res 5 0004
8. 2016-2017 Eosinophilic Esophagitis Smoking Exposure Study. Sponsor: American College of Gastroenterology Smaller Program Award
9. 2016-2017 Feasibility of Eosinophilic Esophagitis Follow-up Care Through Telemedicine: Pilot Study on Patient's Perspective. Sponsor: South Carolina Telehealth Alliance
10. 2018-present Oral budesonide suspension (OBS) in adolescent and adult subjects with eosinophilic esophagitis: A phase 3 randomized, double-blind, placebo-controlled study. Sponsor: Shire Pharmaceuticals.
11. 2019-present A phase 3, randomized, 3-part study to investigate the efficacy and safety of dupilumab in adult and adolescent patients with eosinophilic esophagitis.

Sponsor: Regeneron

As coinvestigator:

1. 2020-present Telehealth in the home of children with medical complexity. Sponsor: South Carolina Children's Telehealth Collaborative

**Editorial Positions:**

1998-present	Ad Hoc Reviewer, Pediatric Emergency Care
2001-present	Ad Hoc Reviewer, Clinical and Diagnostic Laboratory Immunology
2001-present	Ad Hoc Reviewer, Scandinavian Journal of Gastroenterology
2002-present	Ad Hoc Reviewer, Current Topics in Nutraceutical Research
2002-present	Ad Hoc Reviewer, Gastroenterology
2002-present	Peer Referee, The Cochrane Library of Systematic Reviews, Upper Gastrointestinal and Pancreatic Diseases Group
2003-present	Ad Hoc Reviewer, Inflammatory Bowel Diseases
2004-2005	Section Editor (Pediatrics), Current Treatment Options in Gastroenterology
2005-present	Reviewer, Faculty of 1000 Medicine, Gastroenterology Section
2006-present	AD Hoc Reviewer, Journal of Pediatric Gastroenterology and Nutrition
2007-present	Ad Hoc Reviewer, Alimentary Pharmacology and Therapeutics
2009-2011	Editorial Board, FOCUS on Pediatrics
2012-2014	Abstract Review Committee, Advances in Inflammatory Bowel Disease Annual Conference
2012-present	Research Committee, American College of Gastroenterology
2017	Head Chair for the Pediatrics Abstract Review Committee, World Congress of Gastroenterology at the American College of Gastroenterology Annual Meeting

**Awards, Honors, Membership in Honorary Societies:**

1995	Alpha Omega Alpha
1995	Cum Laude, University of South Carolina
2000	Young Investigator Travel Award, World Congress of Pediatric Gastroenterology, Hepatology and Nutrition, Boston
2001	Ethel Brown Foerderer Fund Fellow, Foerderer Fund for Excellence in Pediatric Research, The Children's Hospital of Philadelphia
2003	Distinguished Young Alumni Award, University of South Carolina School of Medicine
2004	David Cornfeld Bedside Teaching Award, The Children's Hospital of Philadelphia
2004	Pediatric Housestaff Faculty Honor Roll, The Children's Hospital of Philadelphia
2008	Outstanding Publication Award, GHS Children's Hospital
2009	Residency Outstanding Teaching Division Award, GHS Children's Hospital
2011	Residency Outstanding Teaching Division Award, GHS Children's Hospital
2012	Residency Outstanding Teaching Division Award, GHS Children's Hospital
2013	John P. Matthews, Jr. Outstanding Faculty Teaching Award, GHS Children's Hospital

**Academic Committee Activities:**

Department	
1998-2005	Graduate Education Committee, Department of Pediatrics, The Children's Hospital of Philadelphia
2001-2003	Health Information Management Subcommittee for Electronic Medical Record, Department of Pediatrics, The Children's Hospital of Philadelphia
2001-2004	Intern Selection Committee, Department of Pediatrics, The Children's Hospital of Philadelphia
2007-2008	Children's Action Committee, Department of Pediatrics, Greenville Children's

Hospital  
2007-2008 Children's Hospital Educational and Clinical Services Committee, Department of Pediatrics, Greenville Children's Hospital  
2011-2012 Children's Hospital Academic Advisory Committee, Department of Pediatrics, Greenville Children's Hospital

#### Institution

2012-present Appointments and Promotions Committee, University of South Carolina School of Medicine-Greenville (Committee Chair, 2018-present)  
2012-2014 LCME Subcommittee for Faculty Affairs, University of South Carolina School of Medicine-Greenville  
2018-present Faculty Representation Committee, University of South Carolina School of Medicine-Greenville  
2019-present Clinician Advocacy Committee, Prisma Health-Upstate

#### **Major Teaching Responsibilities (Current):**

##### Undergraduate Medical Education

Didactic lectures and clinical mentorship for students at USC School of Medicine Greenville

##### Graduate Medical Education

Didactic lectures and clinical mentorship for both inpatient and outpatient pediatric gastroenterology experiences for pediatric and medicine-pediatric residents at GHS.

##### Graduate Studies Education

##### Continuing Medical Education

Pediatric Grand Rounds at GHS and area hospitals

#### **Major Clinical Interests and Responsibilities:**

##### Clinical interests

Pediatric inflammatory bowel disease

Eosinophilic esophagitis

General pediatric gastroenterology and hepatology

##### Clinical responsibilities

Outpatient pediatric gastroenterology practice, 3 to 8 sessions/week

Pediatric endoscopy, 1 session/week

Inpatient pediatric gastroenterology, approximately 1 week/month

#### **Lectures and Presentations**

##### Invited lectures and presentations

Jan, 2005 "Constipation and Encopresis." Pediatric Grand Rounds, South Jersey Health System, Vineland, NJ

Feb, 2005 "Nutrition and IBD: Some Important Questions and Answers." CCFA IBD Education Day, The Children's Hospital of Philadelphia

Mar, 2005 "Diarrhea and Malabsorption." Pediatric Grand Rounds, Delaware County Memorial Hospital, Drexel Hill, PA

Jun, 2005 "Eosinophilic Esophagitis: 10-year Experience in Children." Keynote Talk, International Symposium on Eosinophilic Esophagitis, Rome, Italy

Jun, 2005 "Immunologic and Allergic Aspects of Eosinophilic Esophagitis." International Symposium on Eosinophilic Esophagitis, Rome, Italy

Oct, 2005 "Probiotics in Day Care Center Disease Prevention." Satellite Symposium, American Academy of Pediatrics Annual Meeting, Washington, D.C.

Oct, 2005 "Nutrition and IBD: Questions Your Patients Will Ask You." Association of Pediatric Gastrointestinal and Nutrition Nurses Annual Meeting, Salt Lake City, UT

- Oct, 2005 "Eosinophilic Gastrointestinal Disorders." Satellite Symposium, North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition Annual Meeting, Salt Lake City, UT
- Jul, 2006 "Eosinophilic Esophagitis: A 10-year Experience in Children." Pediatric Grand Rounds, AnMed Health, Anderson, SC
- Jul, 2006 "Eosinophilic Esophagitis: A 10-year Experience in Children." Pediatric Grand Rounds, GHS, Greenville, SC
- Aug, 2006 "Dietary Therapy for Eosinophilic Esophagitis." Eosinophils in Gastrointestinal Disease CME Symposium, Philadelphia, PA
- Aug, 2006 "Dietary Therapy for Eosinophilic Esophagitis." American Partnership for Eosinophilic Disorders Annual Meeting, Cherry Hill, NJ
- Oct, 2006 "Eosinophilic Esophagitis: A 10-year Experience in Children." Pediatric Grand Rounds, Self Regional Hospital, Greenwood, SC
- Jun, 2007 "Childhood Diarrhea." Tidewater Pediatric Society, Virginia Beach, VA
- Jun, 2007 "Eosinophilic Esophagitis." Pediatric Grand Rounds, Children's Hospital of the Kings' Daughters, Norfolk, VA
- Sep, 2008 "Pediatric Inflammatory Bowel Disease." Pediatric Grand Rounds, Children's Hospital at Richland Memorial, Columbia, SC
- May, 2009 "The I's Have It: Incorporating a Quality Improvement Curriculum into a Residency Program." Workshop at the Association of Pediatric Program Directors annual meeting, Baltimore, MD
- Jul, 2010 "What are the Eosinophil-Associated Gastrointestinal Disorders?" American Partnership for Eosinophilic Disorders Annual Conference, Denver, CO
- Sep, 2010 Instructor, Hands-on Endoscopy Course, North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition Annual Meeting, New Orleans, LA
- Jul, 2011 Course Director: Eosinophilic Esophagitis: Expert Perspectives, Greenville, SC
- Jul, 2011 "Overview of the Eosinophil-Associated Gastrointestinal Disorders." American Partnership for Eosinophilic Disorders Annual Conference, Greenville, SC
- Jul, 2011 "What About the Other EGID's?" American Partnership for Eosinophilic Disorders Annual Conference, Greenville, SC
- Jul, 2011 "The Future of Research on the EGID's." American Partnership for Eosinophilic Disorders Annual Conference, Greenville, SC
- Jul, 2011 "Gastroesophageal Reflux Disease: Evaluation and Management in Children." South Carolina American Academy of Pediatrics Annual Conference, Asheville, NC
- Oct, 2011 Expert panel member. Advances in Inflammatory Bowel Disease 2011, Charleston, SC
- Oct, 2011 Instructor, Hands-on Endoscopy Course, North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition Annual Meeting, Orlando, FL
- Oct, 2011 Moderator, "Virtual Eosinophilic Esophagitis." North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition Annual Meeting, Orlando, FL
- May, 2012 "The Role of Diet and Allergy Testing in Eosinophilic Esophagitis." Digestive Disease Week, San Diego, CA
- Sep, 2012 "Eosinophilic Esophagitis: Diagnosis and Treatment from the Perspective of the Gastroenterologist." Southeastern Allergy, Asthma, and Immunology Society Annual Meeting, Amelia Island, FL
- Jan, 2013 Panel leader, Nestle Nutrition Institute/North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition Annual 1<sup>st</sup> Year Fellow's Conference, Fort Lauderdale, FL
- May, 2013 "Eosinophilic Esophagitis: Concepts and Misconceptions." University of North Carolina Gastroenterology Research Symposium, Chapel Hill, NC
- Sep, 2013 Instructor, Hands-on Endoscopy Course, North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition Annual Meeting, Chicago, IL

- Nov, 2015 "State of the Art Therapy for Eosinophilic Esophagitis." Le Patologie Eosinophile Del Tratto Gastrointestinale: Tra Allergie Ed Autoimmunata, Rome, Italy
- Jan, 2016 "Long-Term Safety and Efficacy of Reslizumab in Children and Adolescents with Eosinophilic Esophagitis: A Review of 477 Doses in 12 Children over 7 Years." TIGERS/CEGIR Symposium, American Academy of Allergy, Asthma, and Immunology Annual Meeting, Los Angeles, CA.
- Nov, 2016 "Long-Term Safety and Efficacy of Reslizumab in Children and Adolescents with Eosinophilic Esophagitis: A Review of 477 Doses in 12 Children over 7 Years." World Congress of Pediatric Gastroenterology, Hepatology, and Nutrition. Montreal, Quebec, Canada.
- Mar, 2017 "Management Strategies for the Newly Diagnosed Patient with Eosinophilic Esophagitis: Diet, Medications, or Both?" Nutricia Learning Center Webinar.
- Apr, 2018 "Feasibility of a Telemedicine Program For Improving Care in Pediatric Patients with Eosinophilic Esophagitis." South Carolina Telehealth Alliance Annual Meeting, Columbia, SC.
- Nov, 2018 "Espresso with the Expert." Nutricia Learning Center at the North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition Annual Meeting, Fort Lauderdale, FL.
- Mar, 2019 "Dietary Management of Eosinophilic Esophagitis." Nutricia Learning Center at the American Academy of Asthma, Allergy, and Immunology Annual Meeting, San Francisco, CA.
- Jun, 2019 "Review of the International Experience with Eosinophilic Esophagitis and Esophageal Atresia." 5<sup>th</sup> International Conference on Oesophageal Atresia (INoEA), Rome, Italy.
- May, 2020 "Multidisciplinary Approach to EoE Management in Children." Nutricia Learning Center Webinar

#### **Presentations:**

- Hurd LB, Shepanski MA, Markowitz JE, Culton KL, Check M, Peck SN, York A, Baldassano RN.: Health related quality of life improves in children and adolescent inflammatory bowel disease (IBD) patients attending IBD camp. (Presented at Digestive Disease Week/American Gastroenterological Association annual meeting) Orlando. Gastroenterol 124: A200, 2003.
- Mamula P, Markowitz JE, Neiswender K, Zimmerman A, Wood S, et al.: Conscious sedation with midazolam and fentanyl for pediatric endoscopy. (Presented at Digestive Disease Week/American Society for Gastrointestinal Endoscopy annual meeting) Orlando. Gastrointest Endosc 57: A121, 2003.
- Mamula P, Markowitz JE, vonAllmen D, Cohen L, Hurd L, Baldassano RN: Infliximab in pediatric ulcerative colitis: two year follow up. (Presented at Digestive Disease Weeek/American Gastroenterological Association annual meeting) Orlando. Gastroenterol 124: A522, 2003.
- Markowitz JE, Mamula P, Shepanski MA, Baldassano RN.: Growth parameters do not improve in the first six months following infliximab infusion. (Presented at Digestive Disease Week/American Gastroenterological Association annual meeting) Orlando. Gastroenterol 124: A196, 2003.
- Miele E, Markowitz JE, Mamula P, Baldassano RN: Human anti-chimeric antibody in children and young adults with inflammatory bowel disease receiving infliximab (Oral presentation at the North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition annual meeting) Montreal . J Pediatr Gastroenterol Nutr 37: 393, 2003.
- Jacobstein DA, Markowitz JE, Mamula P, Herskovitz R, Leonard MB, Piccoli DA, Baldassano RN: Predictors for immunomodulator use as first line therapy in pediatric Crohn's disease. (Presented at the World Congress of Pediatric Gastroenterology, Hepatology, and Nutrition) Paris. J Pediatr Gastroenterol Nutr 39: S314, 2004.

- Liacouras CA, Spergel J, Ruchelli E, Mamula P, Markowitz J: Eosinophilic esophagitis: an 8 year experience. (Oral Presentation at the World Congress of Pediatric Gastroenterology, Hepatology, and Nutrition) Paris. J Pediatr Gastroenterol Nutr 39: S9, 2004.
- Mamula P, Markowitz JE, Klimov A, Cohen LJ, Piccoli DA, Baldassano RN: Immune response to influenza vaccine in pediatric patients with inflammatory bowel disease. (Presented at Digestive Disease Week/American Gastroenterological Association annual meeting) New Orleans. Gastroenterol 126: A464, 2004.
- Mamula P, Markowitz JE, Klimov A, Cohen LJ, Piccoli DA, Baldassano RN: Immune response to influenza vaccine in pediatric patients with inflammatory bowel disease. (Presented at the World Congress of Pediatric Gastroenterology, Hepatology, and Nutrition) Paris. J Pediatr Gastroenterol Nutr 39: S320, 2004.
- Markowitz JE, Ferry GD, Kirschner BS, Winter HS, Cohen SA, Gold BD, Heyman MB, Mamula P, Shepanski MA, Smith T, Fain PL, Baldassano RN: Premedication and infusion reactions with infliximab: results from a pediatric inflammatory bowel disease consortium. (Presented at Digestive Disease Week/American Gastroenterological Association annual meeting) New Orleans. Gastroenterol 126: A630, 2004.
- Markowitz JE, Ferry GD, Kirschner BS, Winter HS, Cohen SA, Gold BD, Heyman MB, Mamula P, Shepanski MA, Smith T, Fain PL, Baldassano RN: Premedication and infusion reactions with infliximab: results from a pediatric inflammatory bowel disease consortium. (Presented at the World Congress of Pediatric Gastroenterology, Hepatology, and Nutrition) Paris. J Pediatr Gastroenterol Nutr 39: S290, 2004.
- Jacobstein DA, Young J, Maksimak E, Hurd LB, Mamula P, Baldassano RN, Markowitz JE: NOD2 mutations predict phenotypic changes in growth in pediatric Crohn's disease. (Presented at North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition Annual Meeting) Salt Lake City, UT J Pediatr Gastroenterol Nutr 41 545, 2005.
- Gottlieb S, McEvoy C, Winesett D, Markowitz J: Food prick and atopy patch testing is necessary in children with eosinophilic esophagitis. (Presented at the American Academy of Allergy, Asthma, and Immunology Annual Meeting) Philadelphia, PA, 2008.
- Mamula P, Markowitz JE, Piccoli DA, Liacouras CA: Incidence of Perforation in Pediatric Gastrointestinal Endoscopy: 11-Year Experience in a Series of 30,177 Procedures Performed At a Tertiary Care. (Presented at the American Gastroenterological Association Annual Meeting/Digestive Disease Week) Chicago, IL, 2009.
- Hartman R, Feigenbaum M, Markowitz JE: Very low density lipoproteins: A male problem? (Presented at the American Academy of Pediatrics Annual Meeting—Cardiology Section) Washington, D.C. Congenital Heart Disease 4(5):408, 2009.
- Hazen ML, Markowitz JE: Has newborn screening changed the initial presentation of cystic fibrosis? (Presented at the American Thoracic Society Annual Meeting) New Orleans, LA, 2010
- Hudson JA, Sease KK, Markowitz JE: Integrated board review curriculum improves first-time pediatric board pass rates. (Presented at the Association of Pediatric Program Directors Annual Meeting). Vancouver, BC, 2010.
- Spergel JM, Rothenberg ME, Collins MH, Furuta G, Markowitz JE, Fuchs GJ, O’Gorman MA, Abonia JP, Young J, Henkel T, Wilkins HJ, Liacouras CA: Reslizumab in children and adolescents with eosinophilic esophagitis: Results of a double-blind, randomized, placebo-controlled study. (Presented at the American Gastroenterological Association Annual Meeting/Digestive Disease Week) Chicago, IL, Gastroenterology 140(5): S-136, 2011.
- Patterson AM, Sease KK, Markowitz JE: Is proper PICC placement documented before use at our institution? (Presented at the South Carolina American Academy of Pediatrics Annual Meeting) Asheville, NC, 2011.
- Markowitz JE, Johnston DT, McEvoy CF, Wade DC, Dougherty MJ; Kevan EN, Gottlieb SJ: Successful dietary therapy for eosinophilic esophagitis based on skin prick and atopy patch testing. (Presented at the North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition Annual Meeting) Orlando, FL, 2011.



- Nelson BA, Cass AL, Himmelstein J, Hindman D, Markowitz JE: Increased prevalence of short stature in children with eosinophilic esophagitis. (Presented at the Pediatric Academic Societies Annual Meeting) Vancouver, BC, 2014
- Bhatia E, Cass AL, Markowitz JE: Markedly increased prevalence of inflammatory bowel disease among pediatric and adolescent patients with eosinophilic esophagitis. (American Gastroenterological Association Annual Meeting/Digestive Disease Week) Chicago, IL, *Gastroenterology*, 146(5): S-677, 2014
- Eke R, Jobe L, Markowitz JE: Inconsistent remission criteria is a consistent issue in therapeutic trials for eosinophilic esophagitis. (Presented at North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition Annual Meeting) Washington, DC, 2015
- Markowitz JE, Jobe L, Miller M, Frost C, Eke R: Long-Term Safety and Efficacy of Reslizumab in Children and Adolescents with Eosinophilic Esophagitis: A Review of 477 Doses in 12 Children over 7 Years. (American Academy of Allergy, Asthma, and Immunology Annual Meeting) Los Angeles, CA, 2016, *Journal Allergy and Clinical Immunology*, 137(2): AB234, 2016.
- Markowitz JE, Jobe L, Miller M, Frost C, Eke R: Long-Term Safety and Efficacy of Reslizumab in Children and Adolescents with Eosinophilic Esophagitis: A Review of 477 Doses in 12 Children over 7 Years. (World Congress of Pediatric Gastroenterology, Hepatology, and Nutrition) Montreal, Quebec, 2016.
- Markowitz JE, Hayes A, Frost C: Steroid Therapy Does Not Preclude the Need for Dietary Restriction in Eosinophilic Esophagitis. (GHS Health Sciences Center Research Showcase) Greenville, SC, 2017.
- Dellon ES, Katzka DA, Collins MH, Hamdani M, Gupta SK, Hirano I, Kagalwalla A, Lewis J, Markowitz J, Nurko S, Wo J, Gunasekaran TS, Pasternak B, Ellis M, Peterson K, Falk G, Leung J, Prestridge L, Hart M, Leleiko N, Vaezi M, Cherry R, Katzka D, FriedenberG K, Assouline-Dayana Y, Mukkada V. Budesonide oral suspension improves symptomatic, endoscopic, and histologic parameters compared with placebo in patients with eosinophilic esophagitis. (Digestive Disease Week) Chicago, IL, *Gastroenterology* 152(4): 776 e5, 2017.
- Walters S, Eke R, Kline H, Sundlie S, Sease KK, Markowitz J: White coat syndrome in the obese pediatric population: the case for ambulatory blood pressure monitoring. (PAS Annual Meeting) Toronto, Canada, 2018.
- Markowitz JE, Hayes A, Frost C: Eosinophilic esophagitis follow-up care through telemedicine. (SC Telehealth Alliance Annual Meeting) Columbia, SC, 2018.

## **Publications:**

### Peer Reviewed Journal Articles:

1. Kader HA, Baldassano RN, Harty MP, Nicotra J, vonAllmen D, Finn L, Markowitz JE, Carrier M, Piccoli DA: Ruptured retrocecal appendicitis in an adolescent presenting as portal-mesenteric thrombosis and pylephlebitis. *J Pediatr Gastroenterol Nutr* Vol. 27: 584-588, 1998.
2. Liacouras CA, Markowitz JE: Eosinophilic esophagitis: a subset of eosinophilic gastroenteritis. *Curr Gastroenterol Report* Vol. 1: 253-258, 1999.
3. Markowitz JE, Russo P, Liacouras CA: Solitary duodenal ulcer: a new presentation of eosinophilic gastroenteritis. *Gastrointest Endosc* Vol. 52: 673-676, 2000.
4. Markowitz JE, Brown KA, Mamula P, Drott HR, Piccoli DA, Baldassano RN: Failure of single toxin assays to detect *Clostridium difficile* infection in pediatric inflammatory bowel disease. *Am J Gastroenterol* Vol. 96: 2688-90, 2001.
5. Brown KA, Back SJ, Ruchelli ED, Markowitz J, Mascarenhas M, Verma R, Piccoli DA, Baldassano RN.: Lamina propria and circulating interleukin-6 in newly diagnosed pediatric inflammatory bowel disease patients. *Am J Gastroenterol* Vol. 97: 2603-2608, 2002.
6. Kamath BM, Mamula P, Baldassano RN, Markowitz JE: Listeria meningitis after treatment with infliximab. *J Pediatr Gastroenterol Nutr* Vol. 34: 410-12, 2002.
7. Loomes KM, Taichman D, Glover CL, Williams PT, Markowitz JE, Piccoli DA, Baldwin HS,

- Oakey RJ.: Characterization of Notch receptor expression in the developing mammalian heart and liver. Am J Med Genet Vol. 112: 181-189, 2002.
8. Mamula P, Markowitz JE, Brown KA, Hurd LB, Piccoli DA, Baldassano RN: Infliximab as a novel therapy for pediatric ulcerative colitis. J Pediatr Gastroenterol Nutr. Vol. 34: 304-311, 2002.
  9. Mamula P, Piccoli DA, Peck SN, Markowitz JE, Baldassano RN: Total dose intravenous iron dextran infusion for iron deficiency anemia in children with inflammatory bowel disease. J Pediatr Gastroenterol Nutr Vol. 34, 2002.
  10. Mamula P, Telega GW, Markowitz JE, Brown KA, Russo PA, Piccoli DA, Baldassano RN: Inflammatory bowel disease in children five years of age and younger. Am J Gastroenterol Vol. 97: 2005-2010, 2002.
  11. Markowitz JE, Bengmark S: Probiotics in health and disease in the pediatric patient. Pediatr Clin N Amer Vol. 49: 127-141, 2002.
  12. Kamath BM, Bhargava S, Markowitz JE, Ruchelli E, Scanlin TF, Mascarenhas MR: A girl with cystic fibrosis and failure to thrive. J Pediatr Vol. 143: 115-119, 2003.
  13. DeFelice ML, Ruchelli ED, Markowitz JE, Strogatz M, Reddy KP, Kadivar K, Mulberg AE, Brown KA: Intestinal cytokines in children with pervasive developmental disorders. Am J Gastroenterol Vol. 98: 1777-1782, 2003.
  14. Kader HA, Bellah R, Maller ES, Mamula P, Piccoli DA, Markowitz JE.: The utility of ultrasound site selection for pediatric percutaneous liver biopsy. J Pediatr Gastroenterol Nutr Vol. 36: 364-367, 2003.
  15. Markowitz JE, Spergel JM, Ruchelli E, Liacouras CA.: Elemental diet is an effective treatment for eosinophilic esophagitis in children and adolescents. Am J Gastroenterol Vol. 98: 777-782, 2003.
  16. Stephens MC, Shepanski MA, Mamula P, Markowitz JE, Brown KA, Baldassano RN.: Safety and steroid-sparing experience using infliximab for Crohn's disease at a pediatric inflammatory bowel disease center. Am J Gastroenterol Vol. 98: 104-111, 2003.
  17. vonAllmen D, Markowitz JE, Mamula P, York A, Baldassano RN: Laparoscopic versus open bowel resection for pediatric Crohn's disease. J Pediatr Surg Vol. 38: 963-965, 2003.
  18. Mamula P, Markowitz JE, Baldassano RN: Inflammatory bowel disease in early childhood and adolescence: special considerations. Gastroenterol Clin N Amer Vol. 32: 967-996, 2003.
  19. Markowitz JE, Liacouras CA: Eosinophilic esophagitis. Gastroenterol Clin N Amer Vol 32: 949-966, 2003.
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