

NATHALIE NGUYEN, MD

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EDUCATION

BACHELOR OF BUSINESS ADMINISTRATION

2003-2007 **University of Texas at Austin** Austin, TX
Major: Bachelor of Business Administration in Finance, Minor: Biology
Magna Cum Laude

DOCTOR OF MEDICINE

2007-2011 **Texas A&M Health Science Center College of Medicine** Temple, TX
Honors Graduate

POST-DOCTORAL TRAINING

2011- 2014 **University of Texas Southwestern- Children’s Medical Center** Dallas, TX
General Pediatrics Residency

2014-2017 **University of Colorado- Children’s Hospital of Colorado** Aurora, CO
Pediatric Gastroenterology, Hepatology & Nutrition Fellowship

HONORS & AWARDS

2003 **Texas Valedictorian Scholarship**
Scholarship awarded for graduating as high school valedictorian (1 of 817).

2003-2007 **University Honors List, University of Texas at Austin**
Awarded each semester for academic achievement.

2005- 2007 **College Honors Scholar, University of Texas at Austin**
Awarded annually for 4.0 academic record. Graduated college with 4.0 GPA.

2012 **Teaching and Tomorrow Travel Award, NASPGHAN**
Travel grant awarded to pediatrics residents to attend annual NASPGHAN meeting.

2014 **Resident Research Award, UT Southwestern & Children’s Medical Center**
Selected amongst over 100 pediatric residents for project titled, “The effects of proton pump inhibitor treatment on esophageal eosinophilia”.

2016 **APFED Outstanding Eosinophilic Gastrointestinal Diseases Abstract Award**
Awarded by the American Partnership for Eosinophilic Disorders at the 5th Meeting of the World Congress of Pediatric Gastroenterology, Hepatology & Nutrition for oral presentation titled, “Epithelial Barrier Dysfunction in a Mouse Model of Eosinophilic Esophagitis”.

2017 **Honorable Mention, CCTSI Spring Poster Session**
Awarded for poster titled, "TGF-B1 Alters Esophageal Epithelial Barrier Function by Attenuation of Cluadin-7 in Eosinophilic Esophagitis" at the Colorado Clinical and Translational Sciences Institute's Annual Spring Poster Session.

PROFESSIONAL MEMBERSHIPS

2007-2011 Texas Medical Association
2007-2011 American Medical Association
2008-2012 Christian Medical and Dental Association
2011- 2013 Texas Pediatric Society
2011- Present American Academy of Pediatrics
2012- Present North American Society of Pediatric Gastroenterology, Hepatology & Nutrition
2015- Present International Eosinophil Society
2016- Present American Gastroenterological Association
2017- Present American Partnership for Eosinophilic Disorders

INSTITUTIONAL SERVICE (COMMITTEES & COUNCILS)

2016- 2017 Committee on Pediatric Gastroenterology Fellowship Education
Children's Hospital of Colorado

LICENSURE & BOARD CERTIFICATION

2009 Advanced Cardiovascular Life Support
2009 Basic Life Support
2011 Pediatric Advanced Life Support
2012 Neonatal Resuscitation Program
2013 Texas State Board of Medicine Licensure
2014 Colorado State Board of Medicine Licensure
2014 American Board of Pediatrics- Board Certified in General Pediatrics
2017 American Board of Pediatrics- Board Certified in Pediatric Gastroenterology

GRANT SUPPORT

Completed Research Support

NIH-T32 DK067009-12 Sokol (PI) 7/1/15 - 6/30/17
Epithelial Barrier Dysfunction in Eosinophilic Esophagitis
The aim of this study is to evaluate the role of TGF-beta 1 on epithelial barrier function in Eosinophilic Esophagitis.
Role: Trainee

Cystic Fibrosis Clinical Fellowship Grant- Nguyen14B0 Nguyen (PI) 7/1/14- 6/30/16
This award encourages specialized training and prepares candidate for career in academic medicine.
Role: PI

American Academy of Pediatrics Resident Research Grant Nguyen (PI) 7/1/13- 6/30/14
Effects of Proton Pump Inhibitors on Eotaxin-3 in the Esophagus
The aim of this study was to evaluate the effect of Proton Pump Inhibitors on Eotaxin-3 in Esophageal Eosinophilia.
Role: PI

INVITED TALKS/ PRESENTATIONS

- 2015 **“TGF- β Alters Epithelial Barrier Function in Eosinophilic Esophagitis”**
Mucosal Inflammation Program Research Conference/ University of Colorado
Aurora, CO
- 2017 **“Unanswered Questions in Eosinophilic Esophagitis”**
Mucosal Inflammation Program/ University of Colorado
Aurora, CO
- 2018 **“EOS 101”**
APFED Eos Connection Patient Education Conference
Aurora, CO
- 2018 **“Emerging topics in Eosinophilic Esophagitis and Oral Manifestations of
Common GI Disorders”**
Colorado Academy of Pediatric Dentists
Aurora, CO
- 2018 **“Emerging topics: PPIs in Eosinophilic Esophagitis”**
Pediatric Feeding Group
Aurora, CO

PUBLICATIONS

A. PEER REVIEWED ORIGINAL INVESTIGATIONS

1. Masterson JC, Biette KA, Hammer JA, **Nguyen N**, Capocelli KE, Saeedi B, Harris RF, Fernando SD, Hosford LB, Kelly CJ, Campbell EL, Ehrentraut SF, Ahmed FN, Nakagawa H, Lee JJ, McNamee EN, Glover LE, Colgan SP, Furuta GT. Barrier Dysfunction in Eosinophilic Esophagitis is regulated by an Epithelial HIF-1 α -Claudin-1 axis. Under Review.
2. **Nguyen N**, Lavery WJ, Capocelli KE, Smith C, DeBoer EM, Deterding R, Prager JD, Leinwand K, Kobak GE, Kramer RE, Menard-Katcher C, Furuta GT, Atkins D, Fleischer D, Greenhawt M, Friedlander JA. Transnasal Endoscopy in Unsedated Children with Eosinophilic Esophagitis Using Virtual Reality Video Goggles. Clin Gastroenterol Hepatol. 2019 Jan 29. pii: S1542-3565(19)30070-9. doi: 10.1016/j.cgh.2019.01.023. [Epub ahead of print]. PMID: 30708107.
3. **Nguyen N**, Baumgarten A, Wright BL, Capocelli KE, Pan Z, Lee JJ, Furuta GT, Masterson JC. Histologic similarities in children with eosinophilic esophagitis and proton pump inhibitor-responsive esophageal eosinophilia. J Allergy Clin Immunol. 2018 Nov 14. pii: S0091-6749(18)31594-X. doi: 10.1016/j.jaci.2018.10.047. [Epub ahead of print].
4. Mark JA, **Nguyen N**, Rosenwald K, Brumbaugh D, Kramer RE. Successful Retrieval of 28 Rare Earth Magnets from Small Bowel with Antegrade Single Balloon Enteroscopy. J Pediatr Gastroenterol Nutr. Accepted for Publication 2018 June 25.
5. Wright BL, **Nguyen N**, Shim KP, Masterson JC, Jacobson EA, Ochkur SI, Lee JJ, Furuta GT. Increased GATA-3 and T-bet Expression in Eosinophilic Esophagitis vs

Gastroesophageal Reflux Disease. *J Allergy Clin Immunology*. 2018 May;141(5):1919-1921.e5. doi: 10.1016/j.jaci.2017.12.993. Epub 2018 Jan 31.

6. **Nguyen N**, Kramer RE, Friedlander. Videocapsule Endoscopy Identifies Small Bowel Lesions in Patients with Eosinophilic Enteritis. *Clinical Gastroenterology and Hepatology* (2017), doi: 10.1016/j.cgh.2017.08.043. PMID: 28870663
7. **Nguyen N**, Fernando SD, Biette KA, Hammer JA, Capocelli KE, Kitzenberg DA, Glover LE, Colgan SP, Furuta GT, Masterson JC. TGF- β 1 Alters Epithelial Barrier Function via Attenuation of Claudin-7 in Eosinophilic Esophagitis. *Mucosal Immunol*. 2017 Aug 23. doi: 10.1038/mi.2017.72. [Epub ahead of print]. PubMed PMID: 28832026; PubMed Central PMCID: PMC5825237.
8. Hall C, **Nguyen N**, Furuta GT, Prager J, Deboer E, Deterding R, Menard-Katcher C, Capocelli KE, Kramer RE, Friedlander JA. Unsedated In Office Transgastrostomy Esophagoscopy (TGE) to Monitor Therapy in Pediatric Esophagitis and Eosinophilic Esophagitis. *J Pediatr Gastroenterol Nutr*. 2017 May 12; doi: 10.1097/MPG.0000000000001631. PMID: 28505050.
9. Park JY, Zhang X, **Nguyen N**, Souza RF, Spechler SJ, Cheng E. Proton Pump Inhibitors Decrease Eotaxin-3 Expression in the Proximal Esophagus of Children with Esophageal Eosinophilia. *PLoS One*. 2014 Jul 2;9(7):e101391. doi: 10.1371/journal.pone.0101391. PMID: 24988452; PMCID: PMC4079672.

B. REVIEWS, CHAPTERS & EDITORIALS

1. Kim DY, Furuta GT, **Nguyen N**, Inage E, Masterson JC. Epithelial Claudin Proteins and their Role in Gastrointestinal Diseases. Under Review. *J Pediatr Gastroenterol Nutr*. 2019 Feb 4. doi: 10.1097/MPG.0000000000002301. [Epub ahead of print]. PMID: 30724794.
2. Lee K, Furuta GT, **Nguyen N**. Eosinophilic Esophagitis is an underlying cause for gastrointestinal concerns in children. *Front Pediatr*. 2018 May 3;6:113. doi: 10.3389/fped.2018.00113. eCollection 2018.
3. **Nguyen N**, Furuta GT. Chapter 411: Allergic and Eosinophilic Gastroenteropathies. In: Kline MW, ed. *Rudolph's Pediatrics*. 23rd Edition. New York, NY: McGraw-Hill; 2018.
4. **Nguyen N**, Furuta GT, Menard-Katcher C. Sticky Steroids-In Search Of An Approved Treatment For Eosinophilic Esophagitis. *J Pediatr Gastroenterol Nutr*. Publish Ahead of Print 2016 June 30. PMID: 27367789. PubMed Central PMCID: PMC5201455.
5. **Nguyen N**, Furuta GT, Masterson JC. Deeper Than the Epithelium- Role of Matrix and Fibroblasts in Pediatric and Adult Eosinophilic Esophagitis. *J Pediatr Gastroenterol Nutr*. 2016 Aug;63(2):168-9. doi: 10.1097/MPG.0000000000001183. PubMed PMID: 27457777; PubMed Central PMCID: PMC4965178.
6. **Nguyen N**, Furuta GT, Menard-Katcher C. Recognition and Assessment of Eosinophilic Esophagitis: The Development of New Clinical Outcome Metrics.

Gastroenterology and Hepatology. 2015 Oct 11(10): 670-674. PMID: 27330494; PMCID: PMC4849519.

A. ORAL ABSTRACTS

1. **Nguyen N**, Lavery W, Capocelli KE, DeBoer E, Deterding R, Prager, J, Smith C, Mesenbrink K, Kramer RE, Furuta GT, Friedlander J. Unsedated In-Office Transnasal Endoscopy is Safe and Effective in Monitoring Disease Activity in Pediatric Eosinophilic and Non-Eosinophilic Esophageal Disease. Oral Presentation, Annual Meeting of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN). Las Vegas, NV. November 2017.
2. **Nguyen N**, Hammer JA, Biette KA, Lee JL, Furuta GT, Masterson JC. Epithelial Barrier Dysfunction in a Mouse Model of Eosinophilic Esophagitis. Oral Presentation, 5th Meeting of the World Congress of Pediatric Gastroenterology, Hepatology and Nutrition. Montreal, Quebec, Canada. October 2016.

B. ABSTRACTS

1. **Nguyen N**, Furuta GT, Menard-Katcher C. Pill esophagram can identify pediatric patients with EoE that may be amenable to therapeutic dilation. Poster Presentation, Digestive Disease Week. San Diego, CA. May 2019.
2. **Nguyen N**, Atkins D, Andrews R, Skirka S, Natale J, Knotowicz H, Menard-Katcher P, Yadlapati R, Egan M, Menard-Katcher C, Furuta, GT, Robinson J. Assessing Healthcare Transition Readiness in Adolescents with Eosinophilic Gastrointestinal Diseases. Poster Presentation, American Partnership for Eosinophilic Diseases Eos Connection Patient Education Conference. Aurora, CO. July 2018.
3. **Nguyen N**, Lavery W, Capocelli KE, DeBoer E, Deterding R, Prager, J, Smith C, Mesenbrink K, Kramer RE, Furuta GT, Friedlander J. Unsedated In-Office Transnasal Endoscopy is Safe and Effective in Monitoring Disease Activity in Pediatric Eosinophilic and Non-Eosinophilic Esophageal Disease. Poster Presentation, Digestive Disease Week. Washington DC. June 2018.
4. Inage E, Hammer JA, **Nguyen N**, Fernando SD, Furuta GT, Masterson JC. TGFB1 Mediated Upregulation of a Transcription Factor, SNAI1 in Eosinophilic Esophagitis. Poster Presentation, Digestive Disease Week. Washington DC. June 2018.
5. **Nguyen N**, Baumgarten AM, Wright BL, Lee J, Furuta GT, Masterson JC. Histological Assessment of Eosinophil Peroxidase Enhances Diagnosis of Eosinophilic Esophagitis and Proton Pump Inhibitor- Responsive Esophageal Eosinophilia. Poster Presentation, Annual Meeting of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN). Las Vegas, NV. November 2017.
6. Wright BL, **Nguyen N**, Masterson JC, Shim K, Lee J, Furuta GT. Th2 vs Th1 Immune Polarization Distinguishes Eosinophilic Esophagitis from Gastroesophageal Reflux Disease. Poster Presentation, Annual Meeting of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN). Las Vegas, NV. November 2017.

7. **Nguyen N**, Furuta GT, Kramer RE, Cappocelli KE, Menard-Katcher C, Friedlander JA. Capsule Findings in Eosinophilic Enteritis. Poster Presentation, 5th Meeting of the World Congress of Pediatric Gastroenterology, Hepatology and Nutrition. Montreal, Quebec, Canada. October 2016.
8. Hall C, **Nguyen N**, Prager J, Deboer E, Deterding R, Menard-Katcher C, Furuta GT, Cappocelli KE, Smith C, Mesenbrink K, Kramer RE, Friedlander JA. Unsedated in Office Transgastroscopy Esophagoscopy (TGE) to Monitor Therapy in Eosinophilic Esophagitis. Poster Presentation, 5th Meeting of the World Congress of Pediatric Gastroenterology, Hepatology and Nutrition. Montreal, Quebec, Canada. October 2016.
9. Masterson JC, Biette KA, Hammer JA, **Nguyen N**, Cappocelli KE, Saeedi B, Harris R, Fernando SD, Hosford L, Kelly CJ, Campbell EL, Ehrentraut S, McNamee EN, Glover LE, Colgan SP, Furuta GT. Epithelial Barrier Function in Eosinophilic Esophagitis is Regulated by a HIF1a Claudin 1 Axis. Oral Presentation, 5th Meeting of the World Congress of Pediatric Gastroenterology, Hepatology and Nutrition. Montreal, Quebec, Canada. October 2016.
10. **Nguyen N**, Bruny J, Sundaram SS. Infant with VACTERL and Biliary Atresia. Poster Presentation, 29th Annual Meeting of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN). Washington, DC. October 2015.
11. **Nguyen N**, Park JY, Souza RF, Spechler SJ, Cheng E. Effects of Proton Pump Inhibitors on Eotaxin-3 in the Esophagus. Poster Presentation, 28th Annual Meeting of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN). Atlanta, GA. October 2014.
12. **Nguyen N**, Park JY, Souza RF, Spechler SJ, Cheng E. Effects of Proton Pump Inhibitors on Eotaxin-3 in the Esophagus. Poster Presentation, UT Southwestern & Children's Medical Center Research Day. Dallas, TX. June 2014.
13. **Nguyen N**, Heintz D, Patel A. Anti TNF- α Induced Psoriasis in Children Treated for Inflammatory Bowel Disease. Poster Presentation, Pediatric Academic Societies Annual Meeting. Washington, DC. May 2013.
14. **Nguyen N**, Sathe M, Channabasappa N, Cope-Yokoyama S, Chan L. Neonatal Cholestasis: Cystic Fibrosis or Biliary Atresia. Poster presentation, 26th Annual Meeting of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN). Salt Lake City, UT. October 2012.