



Michael J Rosen, MD, MSCI

Stanford University Endowed Professor for Pediatric IBD and Celiac Disease
Pediatrics - Gastroenterology

CLINICAL OFFICES

- **Pediatric Gastroenterology**

730 Welch Rd 2nd Flr

Palo Alto, CA 94304

Tel (650) 491-6686

Fax (650) 721-3822

Bio

BIO

I am a pediatric gastroenterologist and physician scientist, who has been devoted to inflammatory bowel disease (IBD) research since beginning medical training over 20 years ago. I am also Director of the Stanford Center for Pediatric IBD and Celiac Disease. I have expertise crossing mucosal immunology and epithelial biology, formal training and experience in clinical and translational investigation with human biospecimens, and direct insight regarding the important clinical challenges caring for children with complicated IBD. My translational research program focuses on how the immune system regulates epithelial function in chronic intestinal inflammation as it relates to IBD. My clinical research program has focused on optimization of anti-TNF therapy in pediatric IBD, and in particular acute severe ulcerative colitis (ASUC). My laboratory has demonstrated a protective role for IL33, a cytokine that induces type 2 cytokines from T cells and innate lymphoid cells (ILCs), in acute oxazolone colitis through preservation of epithelial goblet cells and barrier function. In line with this finding, we have also shown in a large prospective patient cohort that mucosal expression of type 2 and type 17 immune response genes distinguishes ulcerative colitis (UC) from colon-only Crohn's disease, and that type 2 gene expression is associated with superior clinical outcome in pediatric UC. We have now developed an organoid-immune cell in vitro culture system to demonstrate the ILC2-dependent mechanism through which IL33 induces goblet cell differentiation in the intestinal epithelium. I led the multicenter study Anti-TNF for Refractory Colitis in Hospitalized Children (ARCH) Study, which aims to establish determinants of anti-TNF response in pediatric ASUC and currently Co-Chair the Crohn's & Colitis Foundations Cohort for Pediatric Translational and Clinical Research in IBD (CAPTURE IBD) and PRO-KIIDS Pediatric IBD clinical research network.

CLINICAL FOCUS

- Pediatric Gastroenterology

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Pediatrics - Gastroenterology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Director, Stanford Center for Pediatric IBD and Celiac Disease, (2021- present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Editorial Board, Gastroenterology (2021 - present)
- Chair, PRO-KIIDS Pediatric IBD Research Network, Crohn's & Colitis Foundation (2019 - present)
- Editorial Board, Inflammatory Bowel Diseases (2015 - present)

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Gastroenterology, American Board of Pediatrics (2009)
- Fellowship: Vanderbilt University Medical Center (2009) TN
- Board Certification: Pediatrics, American Board of Pediatrics (2006)
- Residency: Boston Childrens Hospital Pediatric Residency (2006) MA
- MD, Harvard Medical School (2003)
- Medical Education: Harvard Medical School (2003) MA
- BS, Duke University , Biology (1999)
- MSCI, Vanderbilt University School of Medicine , Clinical Investigation (2006)

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Babajide Ojo

Publications

PUBLICATIONS

- **Deep crypt secretory cell differentiation in the colonic epithelium is regulated by Sprouty2 and interleukin-13.** *Cellular and molecular gastroenterology and hepatology*
Schumacher, M. A., Liu, C. Y., Katada, K., Thai, M. H., Hsieh, J. J., Hansten, B. J., Waddell, A., Rosen, M. J., Frey, M. R.
2022
- **MULTICENTER COHORT STUDY OF INFLIXIMAB PHARMACOKINETICS AND THERAPY RESPONSE IN PEDIATRIC ACUTE SEVERE ULCERATIVE COLITIS.** *Clinical gastroenterology and hepatology : the official clinical practice journal of the American Gastroenterological Association*
Whaley, K. G., Xiong, Y., Karns, R., Hyams, J. S., Kugathasan, S., Boyle, B. M., Walters, T. D., Kelsen, J., LeLeiko, N., Shapiro, J., Waddell, A., Fox, S., Bezold, et al
2022
- **Targeted Assessment of Mucosal Immune Gene Expression Predicts Clinical Outcomes in Children with Ulcerative Colitis.** *Journal of Crohn's & colitis*
Clarkston, K., Karns, R., Jegga, A. G., Sharma, M., Fox, S., Ojo, B. A., Minar, P., Walters, T. D., Griffiths, A. M., Mack, D. R., Boyle, B., LeLeiko, N. S., Markowitz, et al
2022
- **Identification of Immunoglobulin G Autoantibody Against Malondialdehyde-Acetaldehyde Adduct as Novel Serological Biomarker for Ulcerative Colitis.** *Clinical and translational gastroenterology*
Duryee, M. J., Ahmad, R., Eichele, D. D., Hunter, C. D., Mitra, A., Talmon, G. A., Singh, S., Smith, L. M., Rosen, M. J., Dhawan, P., Thiele, G. M., Singh, A. B.
2022
- **Antibodies-to-infliximab accelerate clearance while dose intensification reverses immunogenicity and recaptures clinical response in paediatric Crohn's disease** *ALIMENTARY PHARMACOLOGY & THERAPEUTICS*
Colman, R. J., Xiong, Y., Mizuno, T., Hyams, J. S., Noe, J. D., Boyle, B., D'Haens, G. R., van Limbergen, J., Chun, K., Yang, J., Rosen, M. J., Denson, L. A., Vinks, et al
2021

- **New role for fatty acid receptor regulation of immune cells to control intestinal inflammation.** *Gastroenterology*
Rosen, M. J.
2021
- **SLCO1B1 *15 allele is associated with methotrexate-induced nausea in pediatric patients with inflammatory bowel disease.** *Clinical and translational science*
Mehta, R. S., Taylor, Z. L., Martin, L. J., Rosen, M. J., Ramsey, L. B.
2021
- **The Promise of Patient-Derived Colon Organoids to Model Ulcerative Colitis.** *Inflammatory bowel diseases*
Ojo, B. A., VanDussen, K. L., Rosen, M. J.
2021
- **PIR-B Regulates CD4+ IL17a+ T-Cell Survival and Restricts T-Cell-Dependent Intestinal Inflammatory Responses.** *Cellular and molecular gastroenterology and hepatology*
Uddin, J., Tomar, S., Sharma, A., Waggoner, L., Ganesan, V., Marella, S., Yang, Y., Noah, T., Vanoni, S., Patterson, A., Zeng, C., Foster, P. S., Newberry, et al
2021
- **Achieving Target Infliximab Drug Concentrations Improves Blood and Fecal Neutrophil Biomarkers in Crohn's Disease** *INFLAMMATORY BOWEL DISEASES*
Colman, R. J., Tsai, Y., Jackson, K., Boyle, B. M., Noe, J. D., Hyams, J. S., D'Haens, G. M., van Limbergen, J., Rosen, M. J., Denson, L. A., Minar, P.
2021; 27 (7): 1045-1051
- **IL-33 is produced by colon fibroblasts and differentially regulated in acute and chronic murine colitis** *SCIENTIFIC REPORTS*
Waddell, A., Vallance, J. E., Fox, S., Rosen, M. J.
2021; 11 (1): 9575
- **Quality Improvement Methodology Optimizes Infliximab Levels in Pediatric Patients with Inflammatory Bowel Disease.** *Pediatric quality & safety*
Hellmann, J., Etter, R. K., Denson, L. A., Minar, P., Hill, D., Dykes, D. M., Rosen, M. J.
2021; 6 (3): e400
- **Effect of a Practice-wide Anti-TNF Proactive Therapeutic Drug Monitoring Program on Outcomes in Pediatric Patients with Inflammatory Bowel Disease** *INFLAMMATORY BOWEL DISEASES*
Lyles, J. L., Mulgund, A. A., Bauman, L. E., Su, W., Fei, L., Chona, D. L., Sharma, P., Etter, R. K., Hellmann, J., Denson, L. A., Minar, P., Dykes, D. M., Rosen, et al
2021; 27 (4): 482-492
- **Favorable Outcomes and Anti-TNF Durability After Addition of an Immunomodulator for Anti-Drug Antibodies in Pediatric IBD Patients** *INFLAMMATORY BOWEL DISEASES*
Colman, R. J., Portocarrero-Castillo, A., Chona, D., Hellmann, J., Minar, P., Rosen, M. J.
2021; 27 (4): 507-515
- **Colonic Epithelial-Derived Selenoprotein P Is the Source for Antioxidant-Mediated Protection in Colitis-Associated Cancer** *GASTROENTEROLOGY*
Short, S. P., Pilat, J. M., Barrett, C. W., Reddy, V. K., Haberman, Y., Hendren, J. R., Marsh, B. J., Keating, C. E., Motley, A. K., Hill, K. E., Zemper, A. E., Washington, M., Shi, et al
2021; 160 (5): 1694-+
- **Predicting Therapeutic Response in Pediatric Ulcerative Colitis-A Journey Towards Precision Medicine** *FRONTIERS IN PEDIATRICS*
Colman, R. J., Dhaliwal, J., Rosen, M. J.
2021; 9: 634739
- **Sprouty2 limits intestinal tuft and goblet cell numbers through GSK3 beta-mediated restriction of epithelial IL-33** *NATURE COMMUNICATIONS*
Schumacher, M. A., Hsieh, J. J., Liu, C. Y., Appel, K. L., Waddell, A., Almohazey, D., Katada, K., Bernard, J. K., Bucar, E. B., Gadeock, S., Maselli, K. M., Washington, M., Grikscheit, et al
2021; 12 (1): 836
- **Real-World Infliximab Pharmacokinetic Study Informs an Electronic Health Record-Embedded Dashboard to Guide Precision Dosing in Children with Crohn's Disease** *CLINICAL PHARMACOLOGY & THERAPEUTICS*
Xiong, Y., Mizuno, T., Colman, R., Hyams, J., Noe, J. D., Boyle, B., Tsai, Y., Dong, M., Jackson, K., Punt, N., Rosen, M. J., Denson, L. A., Vinks, et al
2021; 109 (6): 1639-1647

- **Vedolizumab Experience in Children and Adolescents with Inflammatory Bowel Disease: A Multicenter Observational Study** *Crohn's & Colitis 360*
Hajjat, T. M., Mosha, M., Whaley, K. G., Rosen, M. J., Suppa, C., Markowitz, J., Dufour, L., Sauer, C., Shkla-Udawatta, M., Boyle, B., Gibson, M., Shapiro, J., Sams, et al
2021; otab039
- **Could a Small Population of Epithelial Cells Get "Tuft" With Crohn 's Disease?** *GASTROENTEROLOGY*
Rosen, M. J.
2020; 159 (6): 2025-2027
- **A Micro-longitudinal Approach to Measuring Medication Adherence in Pediatric Inflammatory Bowel Diseases** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
Plevinsky, J. M., Denson, L. A., Hellmann, J., Minar, P., Rosen, M. J., Hommel, K. A.
2020; 71 (3): 366-370
- **Pediatric Patient With Ulcerative Colitis-Associated Bronchiectasis** *ACG CASE REPORTS JOURNAL*
Russi, A., Gurbani, N., Rosen, M. J., Mallon, D., LeBlanc, F. R.
2020; 7 (4): e00365
- **Improved Population Pharmacokinetic Model for Predicting Optimized Infliximab Exposure in Pediatric Inflammatory Bowel Disease** *INFLAMMATORY BOWEL DISEASES*
Bauman, L. E., Xiong, Y., Mizuno, T., Minar, P., Fukuda, T., Dong, M., Rosen, M. J., Vinks, A. A.
2020; 26 (3): 429-439
- **Elevated Pretreatment Plasma Oncostatin M Is Associated With Poor Biochemical Response to Infliximab.** *Crohn's & colitis 360*
Minar, P., Lehn, C., Tsai, Y., Jackson, K., Rosen, M. J., Denson, L. A.
2019; 1 (3): otz026
- **Development of Infliximab Target Concentrations During Induction in Pediatric Crohn Disease Patients** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
Clarkston, K., Tsai, Y., Jackson, K., Rosen, M. J., Denson, L. A., Minar, P.
2019; 69 (1): 68-74
- **IL-33 Induces Murine Intestinal Goblet Cell Differentiation Indirectly via Innate Lymphoid Cell IL-13 Secretion** *JOURNAL OF IMMUNOLOGY*
Waddell, A., Vallance, J. E., Hummel, A., Alenghat, T., Rosen, M. J.
2019; 202 (2): 598-607
- **Ulcerative colitis mucosal transcriptomes reveal mitochondriopathy and personalized mechanisms underlying disease severity and treatment response** *NATURE COMMUNICATIONS*
Haberman, Y., Karns, R., Dexheimer, P. J., Schirmer, M., Somekh, J., Jurickova, I., Braun, T., Novak, E., Bauman, L., Collins, M. H., Mo, A., Rosen, M. J., Bonkowski, et al
2019; 10: 38
- **Contemporary Medical Management of Acute Severe Ulcerative Colitis** *INFLAMMATORY BOWEL DISEASES*
Whaley, K. G., Rosen, M. J.
2019; 25 (1): 56-66
- **Challenges in IBD Research: Preclinical Human IBD Mechanisms.** *Inflammatory bowel diseases*
Pizarro, T. T., Stappenbeck, T. S., Rieder, F., Rosen, M. J., Colombel, J. F., Donowitz, M., Towne, J., Mazmanian, S. K., Faith, J. J., Hodin, R. A., Garrett, W. S., Fichera, A., Poritz, et al
2019; 25 (Suppl 2): S5-S12
- **Microbiota-sensitive epigenetic signature predicts inflammation in Crohn's disease** *JCI INSIGHT*
Kelly, D., Kotliar, M., Woo, V., Jagannathan, S., Whitt, J., Moncivaiz, J., Aronow, B. J., Dubinsky, M. C., Hyams, J. S., Markowitz, J. F., Baldassano, R. N., Stephens, M. C., Walters, et al
2018; 3 (18)
- **Validation of Neutrophil CD64 Blood Biomarkers to Detect Mucosal Inflammation in Pediatric Crohn's Disease** *INFLAMMATORY BOWEL DISEASES*
Minar, P., Jackson, K., Tsai, Y., Sucharew, H., Rosen, M. J., Denson, L. A.
2018; 24 (1): 198-208
- **MTG16 is a tumor suppressor in colitis-associated carcinoma** *JCI INSIGHT*

- McDonough, E. M., Barrett, C. W., Parang, B., Mittal, M. K., Smith, J., Bradley, A. M., Choksi, Y. A., Coburn, L. A., Short, S. P., Thompson, J. J., Zhang, B., Poindexter, S. V., Fischer, et al
2017; 2 (16)
- **MTG16 is a tumor suppressor in colitis-associated carcinoma.** *JCI insight*
McDonough, E. M., Barrett, C. W., Parang, B., Mittal, M. K., Smith, J. J., Bradley, A. M., Choksi, Y. A., Coburn, L. A., Short, S. P., Thompson, J. J., Zhang, B., Poindexter, S. V., Fischer, et al
2017; 2 (16)
 - **Mucosal Expression of Type 2 and Type 17 Immune Response Genes Distinguishes Ulcerative Colitis From Colon-Only Crohn's Disease in Treatment-Naive Pediatric Patients** *GASTROENTEROLOGY*
Rosen, M. J., Karns, R., Vallance, J. E., Bezold, R., Waddell, A., Collins, M. H., Haberman, Y., Minar, P., Baldassano, R. N., Hyams, J. S., Baker, S. S., Kellermayer, R., Noe, et al
2017; 152 (6): 1345-+
 - **Activation of TGF-beta activated kinase 1 promotes colon mucosal pathogenesis in inflammatory bowel disease** *PHYSIOLOGICAL REPORTS*
Liu, Z., Kong, F., Vallance, J. E., Harmel-Laws, E., Amarachintha, S., Steinbrecher, K. A., Rosen, M. J., Bhattacharyya, S.
2017; 5 (7)
 - **A Low Neutrophil CD64 Index Is Associated with Sustained Remission During Infliximab Maintenance Therapy** *INFLAMMATORY BOWEL DISEASES*
Minar, P., Jackson, K., Tsai, Y., Rosen, M. J., Northcutt, M., Khodoun, M., Finkelman, F. D., Denson, L. A.
2016; 22 (11): 2641-2647
 - **IL-33 Signaling Protects from Murine Oxazolone Colitis by Supporting Intestinal Epithelial Function** *INFLAMMATORY BOWEL DISEASES*
Waddell, A., Vallance, J. E., Moore, P. D., Hummel, A. T., Wu, D., Shanmukhappa, S. K., Fei, L., Washington, M., Minar, P., Coburn, L. A., Nakae, S., Wilson, K. T., Denson, et al
2015; 21 (12): 2737-2746
 - **Inflammatory Bowel Disease in Children and Adolescents** *JAMA PEDIATRICS*
Rosen, M. J., Dhawan, A., Saeed, S. A.
2015; 169 (11): 1053-1060
 - **Treatment with immunosuppressive therapy may improve depressive symptoms in patients with inflammatory bowel disease.** *Digestive diseases and sciences*
Horst, S., Chao, A., Rosen, M., Nohl, A., Duley, C., Wagnon, J. H., Beaulieu, D. B., Taylor, W., Gaines, L., Schwartz, D. A.
2015; 60 (2): 465-70
 - **Letter: stool adalimumab detection in ulcerative colitis and Crohn's disease--authors' reply.** *Alimentary pharmacology & therapeutics*
Rosen, M. J., Minar, P., Vinks, A. A.
2015; 42 (2): 241
 - **Endoscopic Diagnosis of Duodenal Stenosis in a 5-Month-Old Male Infant** *CLINICAL ENDOSCOPY*
Nicholson, M. R., Acra, S. A., Chung, D. H., Rosen, M. J.
2014; 47 (6): 568-570
 - **Small Intestinal Intraepithelial TCR gamma delta(+) T Lymphocytes Are Present in the Premature Intestine but Selectively Reduced in Surgical Necrotizing Enterocolitis (vol 9, e99042, 2014)** *PLOS ONE*
Weitkamp, J., Rosen, M. J., Zhao, Z., Koyama, T., Geem, D.
2014; 9 (8): e99042
 - **Small Intestinal Intraepithelial TCR gamma delta(+) T Lymphocytes Are Present in the Premature Intestine but Selectively Reduced in Surgical Necrotizing Enterocolitis** *PLOS ONE*
Weitkamp, J., Rosen, M. J., Zhao, Z., Koyama, T., Geem, D., Denning, T. L., Rock, M. T., Moore, D. J., Halpern, M. D., Matta, P., Denning, P. W.
2014; 9 (6)
 - **Outcomes following infliximab therapy for pediatric patients hospitalized with refractory colitis-predominant IBD.** *Journal of pediatric gastroenterology and nutrition*
Falaiye, T. O., Mitchell, K. R., Lu, Z., Saville, B. R., Horst, S. N., Moulton, D. E., Schwartz, D. A., Wilson, K. T., Rosen, M. J.
2014; 58 (2): 213-9
 - **Activation of the epidermal growth factor receptor in macrophages regulates cytokine production and experimental colitis.** *Journal of immunology (Baltimore, Md. : 1950)*

- Lu, N., Wang, L., Cao, H., Liu, L., Van Kaer, L., Washington, M. K., Rosen, M. J., Dubé, P. E., Wilson, K. T., Ren, X., Hao, X., Polk, D. B., Yan, et al
2014; 192 (3): 1013-23
- **STAT6 Deficiency Ameliorates Severity of Oxazolone Colitis by Decreasing Expression of Claudin-2 and Th2-Inducing Cytokines** *JOURNAL OF IMMUNOLOGY*
Rosen, M. J., Chaturvedi, R., Washington, M. K., Kuhnhein, L. A., Moore, P. D., Coggeshall, S. S., McDonough, E. M., Weitkamp, J., Singh, A. B., Coburn, L. A., Williams, C. S., Yan, F., Van Kaer, et al
2013; 190 (4): 1849-1858
 - **High-throughput multi-analyte Luminex profiling implicates eotaxin-1 in ulcerative colitis.** *PLoS one*
Coburn, L. A., Horst, S. N., Chaturvedi, R., Brown, C. T., Allaman, M. M., Scull, B. P., Singh, K., Piazuelo, M. B., Chitnavis, M. V., Hodges, M. E., Rosen, M. J., Williams, C. S., Slaughter, et al
2013; 8 (12): e82300
 - **Necrotising enterocolitis is characterised by disrupted immune regulation and diminished mucosal regulatory (FOXP3)/effector (CD4, CD8) T cell ratios.** *Gut*
Weitkamp, J. H., Koyama, T., Rock, M. T., Correa, H., Goettel, J. A., Matta, P., Oswald-Richter, K., Rosen, M. J., Engelhardt, B. G., Moore, D. J., Polk, D. B.
2013; 62 (1): 73-82
 - **Deletion of cationic amino acid transporter 2 exacerbates dextran sulfate sodium colitis and leads to an IL-17-predominant T cell response.** *American journal of physiology. Gastrointestinal and liver physiology*
Singh, K., Coburn, L. A., Barry, D. P., Asim, M., Scull, B. P., Allaman, M. M., Lewis, N. D., Washington, M. K., Rosen, M. J., Williams, C. S., Chaturvedi, R., Wilson, K. T.
2013; 305 (3): G225-40
 - **Transactivation of EGFR by LPS induces COX-2 expression in enterocytes.** *PLoS one*
McElroy, S. J., Hobbs, S., Kallen, M., Tejera, N., Rosen, M. J., Grishin, A., Matta, P., Schneider, C., Upperman, J., Ford, H., Polk, D. B., Weitkamp, J. H.
2012; 7 (5): e38373
 - **Mycophenolate mofetil-related enterocolitis and weight loss: a pediatric case series.** *Case reports in pediatrics*
Dykes, D. M., Moore, S. R., Polk, D. B., Rosen, M. J., Wills, M. L., Morris, B., Maclin, J. S., Nogueira, J., Katz, A., Hunley, T. E., Pugh, J., Saeed, S.
2012; 2012: 624168
 - **Commentaries on "Workshop report: developing a pediatric inflammatory bowel diseases network and data platform in Canada": pediatric inflammatory bowel disease networks: raising the bar.** *Journal of pediatric gastroenterology and nutrition*
Rosen, M. J., Denson, L. A., Kugathasan, S.
2012; 55 (2): 121-2
 - **L-arginine supplementation improves responses to injury and inflammation in dextran sulfate sodium colitis.** *PLoS one*
Coburn, L. A., Gong, X., Singh, K., Asim, M., Scull, B. P., Allaman, M. M., Williams, C. S., Rosen, M. J., Washington, M. K., Barry, D. P., Piazuelo, M. B., Casero, R. A., Chaturvedi, et al
2012; 7 (3): e33546
 - **15-year-old girl with metaplastic atrophic gastritis and enterochromaffin-like cell hyperplasia.** *Journal of pediatric gastroenterology and nutrition*
Russell, A. C., Black, J. O., Schwartz, D. A., Correa, H., Rosen, M. J.
2012; 55 (6): e148-51
 - **STAT6 activation in ulcerative colitis: a new target for prevention of IL-13-induced colon epithelial cell dysfunction.** *Inflammatory bowel diseases*
Rosen, M. J., Frey, M. R., Washington, M. K., Chaturvedi, R., Kuhnhein, L. A., Matta, P., Revetta, F. L., Wilson, K. T., Polk, D. B.
2011; 17 (11): 2224-34
 - **Ciliated hepatic foregut cysts in children.** *Pediatric surgery international*
Zaydfudim, V., Rosen, M. J., Gillis, L. A., Correa, H., Lovvorn, H. N., Pinson, C. W., Kelly, B. S.
2010; 26 (7): 753-7
 - **Endoscopic ultrasound to guide the combined medical and surgical management of pediatric perianal Crohn's disease.** *Inflammatory bowel diseases*
Rosen, M. J., Moulton, D. E., Koyama, T., Morgan, W. M., Morrow, S. E., Herline, A. J., Muldoon, R. L., Wise, P. E., Polk, D. B., Schwartz, D. A.
2010; 16 (3): 461-8
 - **A 31-year-old patient with colitis and perianal disease.** *Clinical gastroenterology and hepatology : the official clinical practice journal of the American Gastroenterological Association*

Rosen, M. J., Schwartz, D. A.
2010; 8 (1): 10-4

- **A randomized prospective trial of endoscopic ultrasound to guide combination medical and surgical treatment for Crohn's perianal fistulas.** *The American journal of gastroenterology*
Spradlin, N. M., Wise, P. E., Herline, A. J., Muldoon, R. L., Rosen, M., Schwartz, D. A.
2008; 103 (10): 2527-35
- **Acute appendicitis following colonoscopy.** *Journal of clinical gastroenterology*
Rosen, M. J., Sands, B. E.
2005; 39 (1): 78
- **Anti-Saccharomyces cerevisiae antibody (ASCA) positivity is associated with increased risk for early surgery in Crohn's disease.** *Gut*
Forcione, D. G., Rosen, M. J., Kisiel, J. B., Sands, B. E.
2004; 53 (8): 1117-22
- **Risk of early surgery for Crohn's disease: implications for early treatment strategies.** *The American journal of gastroenterology*
Sands, B. E., Arsenault, J. E., Rosen, M. J., Alsahli, M., Bailen, L., Banks, P., Bensen, S., Bousvaros, A., Cave, D., Cooley, J. S., Cooper, H. L., Edwards, S. T., Farrell, et al
2003; 98 (12): 2712-8