

# IBD Research

## The Ultimate Team Sport

Judith Kelsen, MD

Ann and Richard Frankel Chair in Pediatric IBD

Director of the Very Early-Onset IBD Program

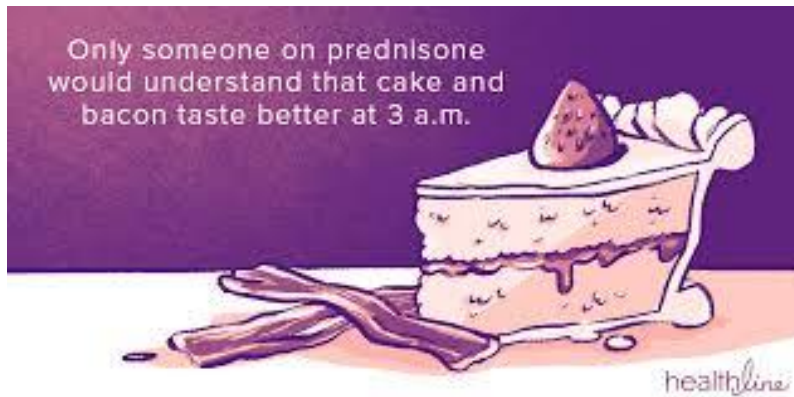
Division of Gastroenterology, Hepatology and Nutrition

The Children's Hospital of Philadelphia



# Life with IBD: The Old Days

- Steroids
- Surgery



# Then came Remicade



## **Infliximab (Remicade) Therapy in The Treatment of Pediatric Crohn'S Disease**

Baldassano, Robert, MD<sup>1</sup>; Braegger, Christian P, MD<sup>2</sup>; Escher, Johanna C, MD<sup>3</sup>; DeWoody, Kimberly, PhD<sup>5</sup>; Hendricks, David F<sup>5</sup>; Keenan, Gregory F, MD<sup>5</sup>; Winter, Harland S, MD<sup>4</sup>

*Journal of Pediatric Gastroenterology and Nutrition*  
33:S19-S26 © September 2001 Lippincott Williams & Wilkins, Inc., Philadelphia

### Surpassing Conventional Therapies: The Role of Biologic Therapy

Robert N. Baldassano

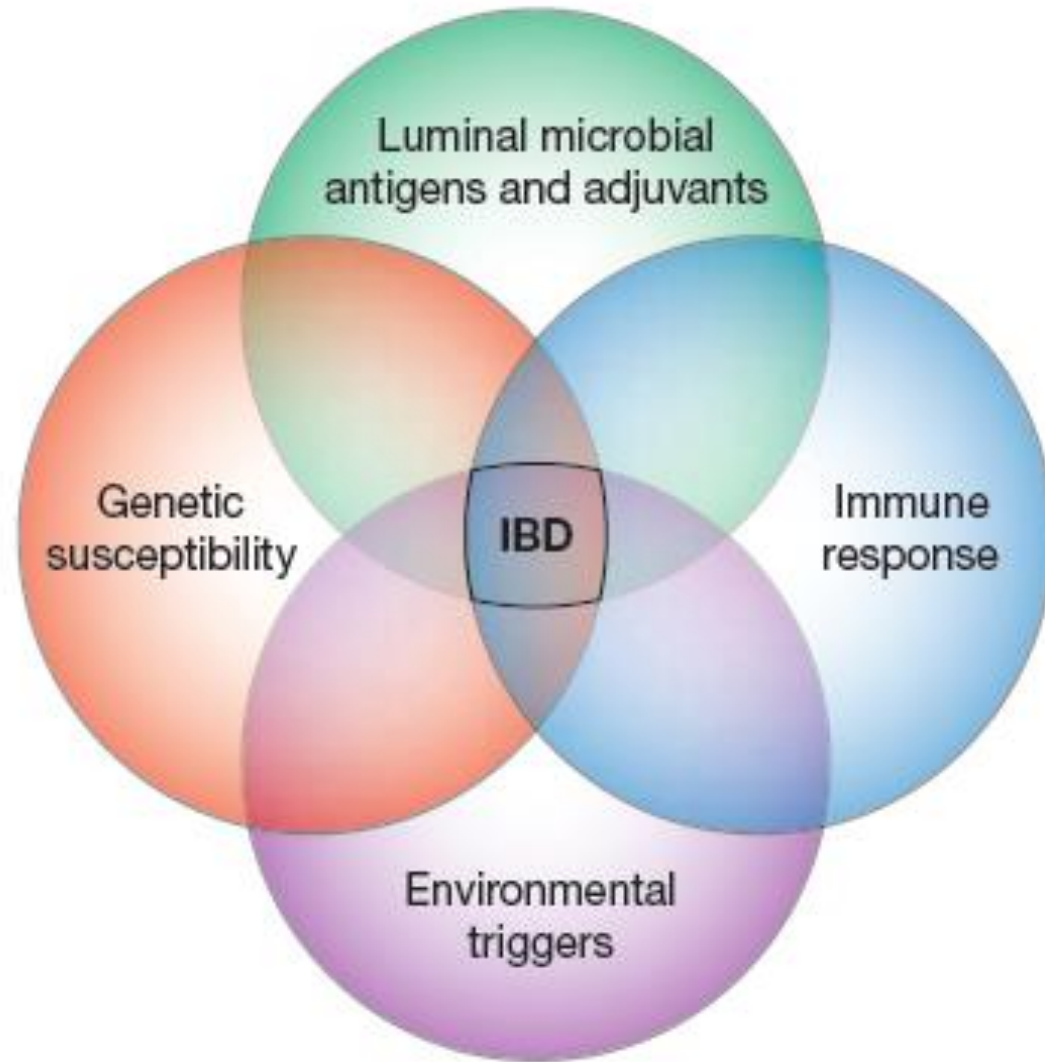
**Safety and Efficacy of Adalimumab for Moderate to Severe Crohn's Disease in Children**

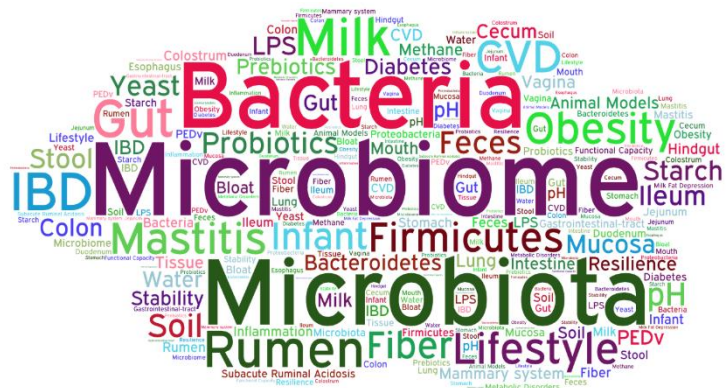
**Vedolizumab Therapy in Severe Pediatric Inflammatory Bowel Disease**

*Máire A. Conrad, MD, MS,\* Ronen E. Stein, MD,\* Elizabeth C. Maxwell, MD, MS,\* Lindsey Albenberg, DO,\*<sup>†</sup> Robert N. Baldassano, MD,\*<sup>†</sup> Noor Dawany, PhD,<sup>‡</sup> Andrew B. Grossman, MD,\*<sup>†</sup> Petar Mamula, MD,\*<sup>†</sup> David A. Piccoli,\*<sup>†</sup> and Judith R. Kelsen, MD\*<sup>†</sup>*



**Stelara**<sup>®</sup>  
(ustekinumab)





**Inflammation, Antibiotics, and Diet as Environmental Stressors of the Gut Microbiome in Pediatric Crohn’s Disease**

James D. Lewis,<sup>6,7,9</sup> Eric Z. Chen,<sup>6,9</sup> Robert N. Baldassano,<sup>1</sup> Anthony R. Otley,<sup>3</sup> Anne M. Griffiths,<sup>4</sup> Dale Lee,<sup>1,2</sup> Kyle Bittinger,<sup>9</sup> Aubrey Bailey,<sup>9</sup> Elliot S. Friedman,<sup>7</sup> Christian Hoffmann,<sup>9</sup> Lindsey Albenberg,<sup>1</sup> Rohini Sinha,<sup>8</sup> Charlene Compher,<sup>5</sup> Erin Gilroy,<sup>6</sup> Lisa Nessel,<sup>6</sup> Amy Grant,<sup>3</sup> Christel Chehoud,<sup>8</sup> Hongzhe Li,<sup>6</sup> Gary D. Wu,<sup>7,\*</sup> and Frederic D. Bushman<sup>8,\*</sup>

**Efficacy of Combination Antibiotic Therapy for Refractory Pediatric Inflammatory Bowel Disease**

*Jessica Breton, MD,\*<sup>⊙</sup> Arthur Kastl, MD,\* Natalie Hoffmann, MD,<sup>†</sup> Rachel Rogers, MS,<sup>‡</sup> Andrew B. Grossman, MD,\* Petar Mamula, MD,\* Judith R. Kelsen, MD,\* Robert N. Baldassano, MD,\* and Lindsey Albenberg, DO\**



nature  
genetics

# Very Early Onset Inflammatory Bowel Disease (VEO-IBD) Program

## Common Threads in Pediatric Inflammatory Diseases Insight Into Personalized Medicine

Trusha T. Patel, MD; Maire A. Conrad, MD; Judith R. Kelsen, MD

Loci on 20q13 and 21q22 are associated with pediatric-onset inflammatory bowel disease

### ORIGINAL ARTICLE

Targeted resequencing identifies defective variants of decoy receptor 3 in pediatric-onset inflammatory bowel disease

CJ Cardinale<sup>1</sup>, Z Wei<sup>2</sup>, S Panossian<sup>1</sup>, F Wang<sup>1</sup>, CE Kim<sup>1</sup>, FD Mentch<sup>1</sup>, RM Chiavacci<sup>1</sup>, KE Kachelries<sup>3</sup>, R Pandey<sup>1</sup>, SFA Grant<sup>1,4</sup>, RN Baldassano<sup>3,4</sup> and H Hakonarson<sup>1,4</sup>

## Newly identified gene variants may contribute to development of very early onset IBD

Kelsen JR, et al. *Gastroenterology*. 2015;doi:10.1053/j.gastro.2015.07.006.  
September 8, 2015

Researchers have identified novel gene variants that regulate B- and T-cell functions in patients with very early onset inflammatory bowel disease, which may contribute to disease development.

PETAR MAMULA  
ANDREW B. GROSSMAN  
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JONATHAN E. MARKOWITZ  
*EDITORS*

# Pediatric Inflammatory Bowel Disease

*Third Edition*

 Springer



# How Were These Discoveries Made?

- You!
- Patients and families are the key to curing this disease!

# IBD Research Coordinators



Kelly Kachelries  
Clinical Research Program Manager



Rawan Shraim



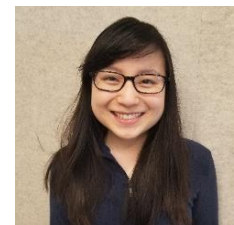
Audrey Merz



Kristen Plantz



Dylan Selden



Vivian Chang



Sarah Weinbrom



Sarah Neukrug



Nina Devas



Sarah Rowley



Sarah Dozil



Naomi Pressman



Shelly Zilber

# How can you help?

- <https://www.chop.edu/pages/inflammatory-bowel-disease-research>

