Pre-Diagnosis Diet Predicts Response to Exclusive Enteral Nutrition and Correlates with Microbiome in Pediatric Crohn Disease

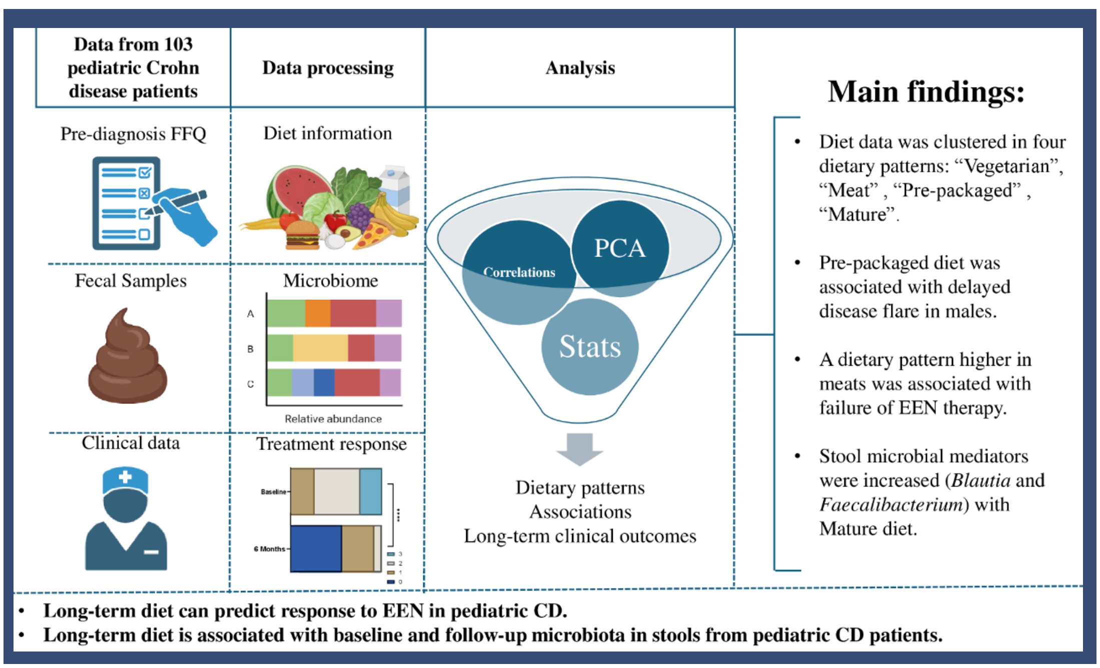
OUR AIM was to determine whether a child's diet prior to a diagnosis of Crohn Disease (CD) could establish a baseline intestinal microbiome, which influences their response to Exclusive Enteral Nutrition (EEN) formula-based (no solid food) diet therapy.

Primary Outcome

The long-term diet before diagnosis can predict response to EEN in pediatric Crohn disease. Diet is in fact associated with baseline and follow-up microbiota.

BACKGROUND - Children with inflammatory bowel diseases (IBD) often have trouble gaining weight and intestinal inflammation can make it difficult for their bodies to absorb the nutrients needed to help them grow. EEN is the recommended first-line therapy to treat active Crohn disease and is highly successful in inducing remission in patients.

Diet is known to affect the risk of CD development or flare and is thought to alter immunity, intestinal barrier integrity and the gut microbiota.



DEFINITIONS

Crohn disease (CD) causes inflammation in the intestinal tract.

Intestinal microbiome is the ecosystem of microbes that live in your intestines.

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CIDsCaNN
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