CRITICAL PATH INSTITUTE

Prediction of complicated disease course for children newly diagnosed with Crohn’s disease: a multicentre inception cohort study

Abstract

Background:

Stricturing and penetrating complications account for substantial morbidity and health-care costs in paediatric and adult onset Crohn’s disease. Validated models to predict risk for complications are not available, and the effect of treatment on risk is unknown.

Methods:

We did a prospective inception cohort study of paediatric patients with newly diagnosed Crohn’s disease at 28 sites in the USA and Canada. Genotypes, antimicrobial serologies, ileal gene expression, and ileal, rectal, and faecal microbiota were assessed. A competing-risk model for disease complications was derived and validated in independent groups. Propensity-score matching tested the effect of anti-tumour necrosis factor ? (TNF?) therapy exposure within 90 days of diagnosis on complication risk.

Read the publication