Survival analysis was performed to study the association between various antibiotics and ADA formation.

**Primary exposures:**
Most commonly prescribed antibiotics
A covariate for each antibiotic class

**Secondary effects (confounders):**
IBD therapy, hospitalizations, surgical procedures

**Changes in the status of exposures over the duration of follow-up** were captured and analyzed (time varying covariates)

Exposure status for an antibiotic (example)

Patients with IBD

Initiation of anti-TNF

3 years

Time period for survival analysis

Time period for exposure status determination

1\textsuperscript{st} ADA+ or last ADA-