

Double-blind, placebo-controlled, randomized trial. Patients with active Crohn's disease (CDAI  $\geq$  220 and an additional marker of inflammation elevated either RP, ESR/platelet count) were randomized to 15g/day fructo-oligosaccharides (FOS) or placebo for 4 weeks.

Anti TNF not allowed but 5ASA, immunosuppressants and steroids (max dose 20mg/d) if dose stable for 4 weeks were allowed.

Primary endpoint: Clinical response at week 4 (defined as fall in CDAI of  $\geq$  70 points)

#### Results: N=103

- More patients receiving FOS than placebo withdrew before the 4 week end point 26% vs 8% respectively,  $p=0.018$ .
- ITT analysis did not show differences between FOS and placebo, 22% vs 39%,  $p=0.067$  respectively.
- Patients taking FOS had reduced IL-6-positive lamina propria dendritic cells and increased dendritic cells staining IL-10,  $p<0.05$
- No differences in IL-12p40 and *F. prausnitzii* between the groups.

#### Conclusion:

An adequately powered placebo-controlled trial of FOS showed no clinical benefit in patients with active Crohn's disease, despite impacting on DC function.

**Table 2** Response and remission rates in the fructo-oligosaccharide (FOS) and placebo groups

	FOS	Placebo	p Value
Response*			
Intention to treat, n (%)	12 (22%)	19 (39%)	0.067
Per protocol, n (%)	12 (30%)	19 (42%)	0.243
Remission†			
Intention to treat, n (%)	6 (11%)	10 (20%)	0.193
Per protocol, n (%)	6 (15%)	10 (22%)	0.395

Results of  $\chi^2$  tests.

\*Response: primary end point (reduction in Crohn's Disease Activity Index (CDAI)  $\geq$  70 points).

†Remission: CDAI  $\leq$  150.

