Abstract P87 Table 1

Prescriptions	2016/17		2017/18		2018/19	
	666		883		607	
1. Prednisolone	519	77.9%	749	84.8%	521	85.8%
- Budesonide**	147	22.1%	134	15.2%	86	14.2%
Age, mean (SD)	40	19	39	19	39	20
Gender						
Male, n (%)	360	54.1%	470	53.2%	325	53.5%
Diagnosis, n (%)						
- Crohn's disease	315	47.3%	362	41.0%	237	39.0%
- IBD-U	43	6.5%	44	5.0%	34	5.6%
- Ulcerative colitis	308	46.2%	477	54.0%	336	55.4%
Steroid courses						
Duration, mean (sd)	13.02*	14.00	9.90*	9.40	8.40*	7.10
\leq 8 weeks, n(%)	355	53.3%	573	64.9%	386	63.6%
> 8 weeks, n(%)	311	46.7%	310	35.1%	221	36.4%

* p<0.01, ANOVA ** 78% of budesonide prescriptions were for CD

steroid exposure. The Registry has established an infrastructure capable of serving as a platform for future nationwide prospective steroid audit.

P88 THE IMPACT OF NOD2 DEFICIENCY ON THE GUT MYCOBIOTA IN CROHN'S DISEASE PATIENTS IN REMISSION

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Introduction Crohn's disease (CD) is strongly associated with risk variants in *Nod2* and an imbalanced gut microbiome. Historical and emerging data indicate that gut fungi play an important role in CD pathogenesis, however a causal link between fungi and dysregulated immunity remains obscure. A recent study has shown that NOD2 acts beyond peptidoglycan sensing and is activated via a fungal chitin-dependent pathway to induce anti-inflammatory cytokine responses. Currently it is unknown what impact *Nod2* deficiency may have on the gut mycobiota in CD.

Methods CD patients of known Nod2 genotype were identified from the UK IBD genetics consortium. Patients in remission were selected if they carried 2 of the common Nod2 variants (homozygotes or compound heterozygotes). Each Nod2 mutant patient was matched to a Nod2 wild-type patient. Participants without CD and of a known Nod2 genotype were recruited from the Cambridge BioResource. DNA was extracted from stool samples using the DNeasy Power-Lyzer PowerSoil kit. The ITS1 region of the eukaryotic ribosomal cluster was amplified and sequenced using the illumina MiSeq. Sequence data was processed using Mothur and reads were assigned taxonomy using the UNITE database (v8). 16S rRNA gene sequences of participants were used from a previous study.¹ Results 81/109 individuals were included in the analysis (34 CD patients [53% Nod2 mutant] and 47 non-CD individuals [39% Nod2 mutant]. No differences were found in α diversity metrics (OTU richness and Shannon diversity) in samples from CD patients vs. non-CD or Nod2 wild type vs. mutant individuals. The phylum Ascomycota was the most abundant in CD vs. non-CD (FDR-Adj. P = 0.00096), whereas Basidiomycota was the most abundant phylum in non-CD vs. CD (FDR-Adj. P = 0.019). An inverse relationship was found between bacterial and fungal Shannon diversity metrics in Nod2 wild type individuals that was independent of CD (r =-0.349; P = 0.029). Principal coordinates analysis using weighted Bray-Curtis dissimilarities of fungal taxa showed separation in fungal community composition between CD and non-CD individuals ($R^2 = 0.021$; P = 0.01; PERMANOVA). The genus Candida showed the greatest effect on fungal community composition in CD, whereas in non-CD individuals, the genus Cryptococcus exerted the greatest effect on the mycobiota composition.

Conclusions This study confirms previously identified compositional changes in the enteric mycobiota in CD patients. However, no differences were observed in the fungal community when stratified by *Nod2* genotype (wild type *vs.* mutant).

REFERENCE

1. Kennedy NA, Lamb CA, Berry SH, et al. Inflamm Bowel Dis 2018;24(3):583-92.

P89 PATIENT PERCEPTIONS AND CONCERNS REGARDING PREGNANCY AND FERTILITY IN INFLAMMATORY BOWEL DISEASE

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Introduction Voluntary childlessness is recognised in Inflammatory Bowel Disease (IBD) patients, despite fertility being comparable to the general population. This may be due to misconceptions of medication safety and the impact on pregnancy. We aimed to:

1. Identify patients' specific concerns regarding IBD and having children

- Quantify the need for more information
- Determine a preferred information format
- Evaluate patient confidence in different clinicians' knowledge of IBD and pregnancy/fertility

Method A medical student led Quality Improvement Project over 11 consecutive weeks (Oct-Dec 2019). IBD patients attending outpatient clinics completed a self-administered survey, tailored to men (M), parous (P) or nulliparous (NP) women.

Results 156 participants completed the survey: 67 males (=37 yrs, range 17–65) and 89 females (=37 yrs, range 17–66, 43P, 46NP). The disease distribution was Crohn's Disease 36%, Ulcerative Colitis 50%, Indeterminate Colitis 3% and 11% were unsure. The mean disease duration was 109.5 months (5–540 months). 71% felt their disease was in remission.

66.2% felt they did not have enough information regarding the impact of IBD on raising a family, specifically fertility and pregnancy, including 63% of the male patients. 42.3% of