value of ≥200 µg/g was used to indicate active disease. The cohort was subdivided into 4 groups: active and inactive Crohn’s disease (CD), active and inactive Ulcerative colitis (UC).

**Results** 1226 patients (771 CD, F = 65%, 455 UC, F = 35%) with matched FC and FBC data were analysed. The median age was 44y (IQR 31–57), median disease duration 102 months (IQR 31–207). Overall, 314/1226 patients (25.6%) were anemic, 185/314 (58.9%) of which were female. Anaemia was observed more frequently in patients with active as opposed to inactive CD (110/328 [33.5%] vs 65/443 [14.7%], p < 0.0001). This pattern was also seen in patients with UC (129/295 [44%] vs 25/162 [14.2%], p < 0.0001). The prevalence of anaemia in active UC was greater than in active FC (p = 0.014); however, this could be explained by the higher median FC in the UC cohort (900 vs. 618, p < 0.0001). There was no statistically significant difference in age or Montreal location (L1 + L3 vs L2, p = 0.16) between the groups. ROC analysis of FC as a predictor of anaemia showed an AUC of 0.69 with a sensitivity and specificity of 0.73 and 0.57 respectively at a cut off of 200 µg/g.

**Conclusion** In this cohort over 25% of patients with IBD were anaemic. There is a clear correlation between disease activity and anaemia in both CD and UC, but this is unrelated to disease distribution. Anaemia in asymptomatic patients should alert clinicians to the possibility of subclinical active mucosal inflammation. These data and the ROC analysis provide further support for optimizing disease treatment in IBD, targeting a FC level of < 200 µg/g.

**Disclosure of Interest** None Declared.

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**PWE-096** A 10 YEAR REVIEW OF THE DEATH RATE AND CAUSE OF DEATH WITHIN A DISTRICT GENERAL COHORT OF INFLAMMATORY BOWEL DISEASE PATIENTS

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**Introduction** Whilst there is a growing body of data supporting the increased risk of colorectal cancer in patients with inflammatory bowel disease, little has been written about the overall mortality and cause of death seen in patients with this condition.

**Objective** To assess the death rate and cause of death in our cohort of IBD patients.

**Methods** A database of all known local IBD patients was established after retrospectively reviewing 37,000 colonoscopy and flexible sigmoidoscopy reports performed at the Luton & Dunstable University Hospital between 2001 and 2011. Histological assessment was then used to cross correlate all patients diagnosed with colitis. The hospital coding officer analysed the database and provided details on all deaths within that cohort over the time period and the cause of death as listed by the hospital record system.

**Results** In total 2640 patients with IBD were identified and 186 (7%) of these died between 2001 and 2011. The average age of death was 80 years. The cause of death ranged considerably (see chart).

**Abstract PWE-096 Table**

<table>
<thead>
<tr>
<th>Cause of Death</th>
<th>Number</th>
<th>Percentage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pneumonia</td>
<td>32</td>
<td>17.2</td>
</tr>
<tr>
<td>Sepsis</td>
<td>28</td>
<td>15.1</td>
</tr>
<tr>
<td>Cardiac</td>
<td>22</td>
<td>11.8</td>
</tr>
<tr>
<td>Non-GI Cancer</td>
<td>11</td>
<td>5.9</td>
</tr>
<tr>
<td>Crohn’s disease</td>
<td>11</td>
<td>5.9</td>
</tr>
<tr>
<td>Ulcerative colitis</td>
<td>9</td>
<td>4.8</td>
</tr>
<tr>
<td>GI Cancer</td>
<td>9</td>
<td>4.8</td>
</tr>
<tr>
<td>Stroke</td>
<td>8</td>
<td>4.3</td>
</tr>
<tr>
<td>GI Haemorrhage</td>
<td>6</td>
<td>3.2</td>
</tr>
</tbody>
</table>

**Conclusion** The Office for National Statistics stated that in 2010 the average lifespan in England and Wales, for men and women, was 85 and 89 years respectively. The life expectancy in Luton is slightly lower than the national average by approximately 2 years (Annual Public Health Report 2012–2013). The average age of death in our IBD cohort appears substantially lower than expected, with just 41 of the 186 (22%) being related to gastrointestinal causes. Infection (sepsis and pneumonia) appeared to be the single most common cause of mortality 60/186 (37.5%), raising questions about an iatrogenic contribution.

**Disclosure of Interest** None Declared.

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**PWE-097** THE EFFECT OF ETHNICITY ON THE PREVALENCE OF INFLAMMATORY BOWEL DISEASE WITHIN THE LUTON AND DUNSTABLE CATCHMENT REGION, IN UK

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**Introduction** The BRAA theory of Parkinson’s disease believes that the aetiology may all start in the bowel with a “slow virus” entering the central nervous system after passing through the intestinal mucosa (Hawkes C.H., 2007). There is already work confirming an increased frequency of H. pylori infections (requiring treatment) in the 5 years prior to Parkinson’s disease being diagnosed (Nielsen H.H. 2012). Recently a gene associated with the inherited form of Parkinson’s disease (leucine-rich repeat kinase 2 - LRRK2), has been shown to regulate the transcription factor NFAT1 (nuclear factor of activated T cells 1), which in turn appears to regulate cells in the immune system, including macrophages, dendritic cells and T cells. Higher quantities of NFAT1 activity are seen in the colonic mucosa of Crohn’s patients, where the total quantity directly correlates to the severity of the disease (Liu Z., 2011). Objective: With these theories in mind, we aimed to assess whether a higher than expected association between inflammatory bowel disease (IBD) and Parkinson’s disease (PD) could be found.

**Methods** A cross correlation analysis was performed using the IBD and PD databases at the Luton & Dunstable University Hospital. A retrospective analysis was also performed using medical notes and the internal electronic results system to assess the disease severity of these two conditions.

**Results** The prevalence of IBD and PD within the UK population is said to be 225/100,000 (UC 150/100,000 + CrD 75/100,000) and 140/100,000, respectively. The L&D catchment area covers 330,000 and so one would have expected approximately 742 IBD and 462 PD patients, respectively. The databases had 2783 IBD patients (median age = 51) and 350 PD patients (median age = 79) listed. Probability analysis predicted that we would find just 1 patient with concomitant PK and IB, however, we found 6 subjects with these conditions concomitantly. This translates into 0.2% of IBD patients having PD and 1.72% of PD patients having IBD. Mild-to-moderate PD was noted in 3 patients, and all 3 had mild-to-moderate IBD. Three of the PD patients were scored as having moderate-to-severe disease, and 2 of these also had moderate-to-severe IBD.

**Conclusion** The proportion of PD patients having concomitant IBD is considerably higher than one would have expected by chance. This raises possible issues around genetic association, but also lends some credence to theories that PD may owe its origins to the bowel and infective translocation across bowel mucosa. Those patients with more significant IBD also appeared to have more severe PD.

**Disclosure of Interest** None Declared.
Introduction The incidence and prevalence of inflammatory bowel disease in Asia, is generally lower than what we see in the West, however, in recent years there has been a significant increase. Currently there is little information available regarding the impact of ethnicity on inflammatory bowel disease (IBD) prevalence within the UK. One study has suggested that young Asians born in Britain are at a significantly higher risk of developing IBD than the indigenous European population.

Objectives To assess the prevalence and disease distribution amongst our ethnically diverse local population.

Methods Data from the Office for National Statistics 2010 was used to establish the general make up of the local population. The regional IBD excel database was analysed for differences in the ethnic diversity seen in our IBD cohort as compared to that predicted within the local population. In addition, differences in disease type were also assessed for between the different IBD ethnic groups, using the Mann Whitney unpaired t-test.

Results The local population is made up by White 68% Asian 19% (Indians 4.4% Pakistanis 10.6% and Bangladeshis 4%), Black 7%, Mixed 3% and Chinese + others 3%. The IBD database contains 2755 patients, but 270 did not want to disclose their ethnicity. Of the remaining 2485, 2059 (83%) were White, 303 (12%) were Asian, (Indians 111, Pakistanis 153 and Bangladeshis 35), 92 (4.5%) were Black, 28 (1%) were Mixed and 3 were Chinese. IBD was less common within the Asian cohort, but there was a statistical differences seen in the type of IBD suffered by the local Caucasian and Asian populations (p = 0.0141). Asian patients had proportionally more UC and less Crohn’s, with the exception of the Bangladeshis who had a higher (but not statistically significant) prevalence of Crohn’s disease.

Conclusion IBD is less common in the Asian community. Proportionally UC is more frequently experienced than Crohn’s within the Asian population. This may be related to the known increased genetic predisposition of Southern Asians (Indians, Pakistanis and Bangladeshis) to ulcerative colitis.

Disclosure of Interest None Declared.