Results 1479 patient underwent a CTC at KGH during the 3-year period. 454 patients were aged ≥80 years old (30.7%) – mean & median age 84, range 8–7. 69 patients had positive colonic findings (15.2% - see figure). Of which, 31 had CRC reported (14 operated straight away, 5 had endoscopy then surgery, 1 had endoscopy only (no tumour seen), 11 were not operated on). 22 had polyps reported (13 had endoscopy at which 12 had polyectomy, 9 did not have endoscopy). 16 had indeterminate findings (10 had endoscopy which nil significant found).

Of the 385 patients who had CTCs with nil significant colonic findings, 9 had extra colonic tumours. At follow up (105 patients in 12 months from October 2015, 137 patients in 201–7, 143 patients in 201–8, range 0 – 36 months), none of the patients have been diagnosed with CRC thus far.

Conclusion In this study, CT colonography was used in elderly patients aged ≥80 years old as a first or second line colonic examination. The yield of diagnosing colorectal cancer was 6.9% (31/454). CTC that reported negatively for colonic examination. The yield of diagnosing colorectal cancer was 6.9% (31/454). CTC that reported negatively for colonic findings seems to protect patients for ≥6 months.

Whilst colonoscopy may be the preferred diagnostic test for colonic disease, it is an invasive test with a small risk of perforation. CTC is safer, and better tolerated. The reports are generally accurate with regards to significant colonic findings, especially when diagnosing CRC. This study does confirm the safety and efficacy of CTC and suggests that it is an appropriate colonic investigation for elderly patients (aged ≥80 years old) first or second line.

### Background and Aims

The incidence of colorectal cancer (CRC) in patients under 50 years of age is increasing although it is still a rare diagnosis in this age group. However, data suggest young-onset CRC patients have a delayed presentation with higher rates of advanced disease stage at diagnosis. Diagnostic algorithms that increase the specificity of investigations for symptomatic patients in this age group are needed. We aimed to assess features of presentation in young-onset CRC patients in our population and to compare features at presentation with older onset patients.

### Methods

The trust cancer database was reviewed for all patients with a diagnosis of CRC between May 2015 and 2018. Patients diagnosed under the age of 50 were included in the young-onset group. Older onset CRC patients were matched 4:1 by gender and site of tumour (right colon/rectum). Electronic records were evaluated for presentation and laboratory parameters at diagnosis. Fisher’s exact test was used for statistical analysis; odds ratios and confidence intervals were calculated where statistically significant (α 0.05) differences between groups were identified. Data was analysed using GraphPad Prism 5.

### Results

43 patients with a diagnosis of CRC aged less than 50 were identified (6% of all CRC diagnoses). 56% were male with a median age of 40 (IQR 3–6). The most common symptoms at presentation were constipation or diarrhoea (44%), pain (42%) and rectal bleeding (37%). 26% had ≥2 symptoms at presentation. None had a documented significant family history of CRC. In young-onset CRC patients, 49% of tumours were in the left colon, 28% in the right colon and 23% in the rectum. 37% were emergency presentations compared with 26% in the older onset CRC group (ns). 56% presented with Stage 3 or 4 disease compared with 49% in patients ≥50 years (ns). 1-year survival was 93% in young-onset CRC patients v 86% in patients ≥50 years (ns). 51% of young-onset CRC v 31% in patients ≥50 years were anaemic at presentation (p=0.02; OR 2.3 95% CI 1.3–4.9). 26% of young-onset CRC v 10% in patients ≥50 years had elevated platelet counts at diagnosis (p=0.02; OR 2.9 95% CI 1.3–6.8).

Conclusion In our population young-onset CRC patients there was a trend towards higher rates of emergency presentation and advanced disease stage, as well as a higher 1-year survival rates, although these were not statistically significant compared to older onset CRC patients. A significantly higher proportion of young-onset CRC patients were found to be anaemic and have elevated platelet counts at diagnosis. Elevated platelet count as well as blood haemoglobin should be investigated further leading to possible incorporation into diagnostic algorithms that might increase the specificity of investigation for symptomatic patients in this age group.

### A RETROSPECTIVE REVIEW OF COLO-RECTAL CANCER IN YOUNG ADULTS

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Introduction The aim of this study was to assess the trends in clinical presentations and anaemia among young adults [age < 50] with colorectal cancer at the time of diagnosis.

Methods This was a retrospective observational study. The identity of young adults diagnosed with colorectal cancer between 200–017 were obtained from the Somerset cancer data base. Clinical information about the patient was obtained from the electronic patient database [I portal] Descriptive statistics and survival outcomes were performed using SPSS software.

Results 171 patients were identified over a period of 8 years (102 males vs 69 females) with median age of 46 years. Prior to diagnosis, the mean duration of symptoms for men was 99 days and for women 91 days. The majority of both male and female patients presented with rectal bleeding (53.7% and 46.3% respectively). Abdominal pain was more common among patients diagnosed with right sided colon cancer compared to the left 41.2% vs 20.2%, p=0.0046 [95% CI 6.1–6.01]. Almost half (49.02%) of the patients were anaemic at the time of diagnosis. Incidence of anaemia was significantly higher in right sided cancers as compared to left colon cancers [74% vs 40% respectively p=0.0001]. Microcytic anaemia [mcv < 80] was seen in 25.2% patients. Post hoc analysis showed that MCV was significantly lower in patients with cancer in the right colon, compared to those with it in the rectum (p=0.01). Rectum was the most common site of the tumour (47.95%) and 73% (116) of patients were diagnosed at advanced stage (stage III/IV).