LETTER

Management strategies for the colonoscopic surveillance of people with Lynch syndrome during the COVID-19 pandemic

The recent publication of UK guidelines for the management of hereditary colorectal cancer immediately preceded the COVID-19 pandemic. We commend the response by the British Society of Gastroenterology (BSG) relating to GI endoscopy activity amidst this pandemic. Such urgent measures are required to curtail the rate and breadth of coronavirus transmission throughout the country, and we are of the belief that the adherence to these guidelines during the early stages of this global pandemic was crucial in saving lives, and further guidance relating to the ‘recovery’ phase will be crucial in delivering diagnostic and cancer preventing endoscopic interventions.

Though the emergency endoscopy COVID-19 guidance expressed clear and justified recommendations for the suspension of these services in non-urgent or routine screening populations, the management of patients deemed as being ‘high risk’ and subsequently prioritised for colonoscopy during this time is not currently well defined. For example, specific guidance for surveillance of individuals with conditions such as Lynch syndrome appeared vague in some statements and altogether omitted from early guidance announcements.

Lynch syndrome is an inherited cancer predisposition syndrome defined by the presence of pathogenic or germline variants within any one of the mismatch repair (MMR) genes. Lynch syndrome is known to affect up to 1:125 of the UK population and presents a high lifetime risk of colorectal cancer (observed anywhere between 10% and 47% dependent on age and MMR mutation). In this patient population, routine 2-yearly colonoscopy may have been cancelled or postponed until further notice in response to emergency COVID-19 guidelines, and given the present backlog of patients awaiting colonoscopy, we imagine that local centres may opt to classify these patients as falling into a ‘category 3’, that is, potentially deferred for colonoscopy for the indefinite future.

The cancer prevalence in the Lynch syndrome patient population undergoing 2-yearly colonoscopy is observed at 4%–5%, with an annual incidence rate of 1%–4% (depending on age and affected MMR gene). These surveillance-detected cancers are usually identified at an early stage and are thus associated with good survival outcomes. The prevalence of colorectal cancer in this patient population at the time of their scheduled screening colonoscopy is therefore higher than the 3% threshold used for urgent 2-week wait (2WW) referred of patients with suspected cancer symptoms according to National Institute for Health and Care Excellence guidelines (NG12).

We therefore propose, as an interim solution, the use of faecal immunochemical test (FIT) as a method of risk stratification of individuals with Lynch syndrome who are due surveillance colonoscopy, which may not currently be possible to provide easily. FIT, with a low cut-off at 10 µg/g faeces detects 90% of cancers in low-risk symptomatic primary care populations. However, with the roll-out of FIT in secondary care for symptomatic 2WW patients, endoscopy services throughout the country are now inundated with the task of deploying FIT kits as a strategic intervention in colonoscopy prioritisation.

In addressing the need of people with Lynch syndrome, we have collectively developed and are rolling out a clinical service pilot proposal entitled ‘Rapid evaluation of FIT levels in individuals with a Lynch syndrome pathogenic variant to determine a revised threshold for colonoscopy in response to the COVID-19 pandemic’. In our interim testing pathway, patients with a FIT level of 10 µg/g faeces or greater will be prioritised for colonoscopic surveillance of Lynch syndrome patients, endoscopy services throughout the country are now inundated with the task of deploying FIT kits as a strategic intervention in colonoscopy prioritisation.

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Competing interests KJM: Medical advisory board of Bowel Cancer UK, Lynch Syndrome UK, Funding for Lynch colonoscopic surveillance study awarded by 40tude charity. FL: FAP trial (now closed) with funding awarded to NHS trust research facility. JE: Advisory board Lumendi; Boston Scientific; Speaker feesOlympus, Falk, MDR; speaker fees: SwissSCWeb; Pentax; Research Grant: Olympus; Consultancy: Norgine. JB: a patent for high-speed low-cost tumour profiling pending to John Burn and QuantuMDx.

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PostScript


