

## RESEARCH

# Defining the optimal design of the inflammatory bowel disease multidisciplinary team: results from a multicentre qualitative expert-based study

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## ABSTRACT

**Objective** To elicit expert views to define the aims, optimal design, format and function of an inflammatory bowel disease (IBD) multidisciplinary team (MDT) with the overall purpose of enhancing the quality of MDT-driven care within an IBD service provision.

**Design** This study was a multicentre, prospective, qualitative study using a standard semistructured interview methodology.

**Participants** A multidisciplinary sample of 28 semistructured interviews of which there are six consultant colorectal surgeons, six IBD nurse specialists, seven consultant gastroenterologists, five consultant radiologists and four consultant histopathologists.

**Setting** Participants were recruited from 10 hospitals, which were a mixture of community hospitals and specialist IBD centres between June and October 2013.

**Results** Experts argued that the main goal of MDT-driven IBD care is to improve patient outcomes via sharing collective expertise in a formalised manner. Themes regarding the necessary requirements for an IBD MDT to occur included good attendance, proactive contribution, a need to define core members and appropriate and functional computer facilities. Emergent themes regarding the logistics of an effective IBD MDT included an eligibility criterion for case selection and discussion and appropriate scheduling. Themes regarding the overall design of the IBD MDT included a 'hub-and-spoke' model versus a 'single-centre' model.

**Conclusions** Defining key elements for an optimal design format for the IBD MDT is

necessary to ensure quality of care and reduce variation in care standards. This study has produced a set of expert-based standards that can be used to structure the IBD MDT. These standards now require larger scale validation and consensus prior to becoming a practical guideline for the management of IBD care.

## INTRODUCTION

Inflammatory bowel disease (IBD) service provision and care is being analysed as part of a general drive to reduce variation in standards of healthcare and to improve the quality of services that patients receive.<sup>1–3</sup> Variability across institutions in 30-day reoperation rates following colorectal resection was identified in the UK. A diagnosis of IBD was demonstrated as an independent risk factor for higher reoperation rates.<sup>4</sup> Heterogeneity in opinion between gastroenterologists, colorectal surgeons (CSs) and patients exists in treatment algorithms for IBD.<sup>5 6</sup> The lack of clear guided standards in the setting of complex IBD may result in clinical decisions being made from an intuitive mix of probability judgements, experience and sometimes bias, combined with implicit judgements on the importance of possible outcomes. While attempts are made to elicit patient preferences in relation to the latter, the success of such patient-centred algorithms has yet to be proven.

The reason for differences in opinion between clinicians is yet to be determined, however, there is need for consensus and

standardisation in the setting of IBD and related services. Closer and more focused monitoring of existing services can help steer healthcare provision and guide commissioning of clinical services to generate greater efficiency, productivity, economy and ultimately better service at patient level by initiating targeted change.<sup>4</sup> Some UK-based centres are moving into this direction—via the introduction of multidisciplinary teams (MDTs) to manage patients with IBD. The concept of MDT-driven care has been widely implemented for the clinical decision-making and management of complex diseases, like cancer,<sup>7</sup> cardiac disease,<sup>8</sup> stroke and neurological rehabilitation<sup>9</sup> and diabetes.<sup>10</sup> The basic premise of MDT-driven care is to involve all key professional groups in the consideration of complex patients and/or diagnostic dilemmas to create a clear care plan. It is a forum where clinical cases can be discussed among a variety of healthcare professionals and care recommendations are made. The implementation of MDT-driven care has demonstrated an improvement in survival across various specialties.<sup>11–14</sup> Efforts are being made to standardise the organisational structure and design of MDT-driven care into further improve this effect.<sup>15</sup>

MDT-driven care is now being introduced into IBD centres.<sup>16</sup> The UK National IBD Audit demonstrated that 75% of participating institutions undertake a weekly MDT meeting for patients with IBD.<sup>1–2</sup> European centres have also demonstrated variability in MDT-driven care.<sup>17</sup> There is, however, little evidence of its efficacy in this context, and currently, there is no guidance on how this intervention may be standardised and used effectively.<sup>1–3</sup> Variability in the workings of the cancer MDT has been demonstrated and protocols for the structure of this meeting are being designed and implemented.<sup>8</sup> Providing a standardised framework for the IBD MDT meeting may enhance its capacity to establish effective quality improvement.

The aim of this study was to (1) explore attitudes towards the IBD MDT across a multidisciplinary sample of healthcare professionals, (2) identify expert views as to what the purpose or aims of the IBD MDT should be and (3) highlight logistical considerations when designing the IBD MDT to meet these aims.

## METHODOLOGY

### Design

This was a prospective, qualitative study using a standard semistructured interview methodology. The qualitative approach was deliberately chosen as it offers detailed information from individual participants and is well suited to explore complex and potentially controversial issues, from which hypotheses and interventions can be generated and tested further.<sup>18–19</sup> The protocol for the study was reviewed by a Research Ethics Committee in London, UK, and approval was

given prior to data collection (Research Ethics Committee reference: 13YH 0175).

### Research materials and procedure

Interviews were carried out using a standardised and piloted semistructured interview protocol delivered by two trained interviewers of clinical background (PM and JR). To ensure credibility, transferability, dependability and confirmability appropriate to qualitative research, the following established measures were employed: (1) use of a standardised interview protocol and clearly defined coding framework; (2) training of the interviewer before interviews and (3) transparency of process and ‘member checking’ (ie, checking with participants that the extracted themes from their interviews matched what they actually meant) to ensure that accurate findings had been extracted from the interviews.<sup>19–22</sup> The interview protocol explored key themes encompassing key elements for an effective IBD MDT, including an understanding of the role and purpose of the IBD MDT, structural inputs required for an effective IBD MDT meeting, logistical considerations for an effective IBD MDT meeting and what the overall design of an effective IBD MDT should entail.

Interviews lasted 20 min on average (range 3–40 min). All interviews were audiotaped and transcribed verbatim. Each interview was coded independently by two members of the research team with backgrounds in surgery (PM) and gastroenterology (JR).

### Participants

The multidisciplinary sample included consultant colorectal surgeons (CSs), consultant gastroenterologists (CGs), consultant gastrointestinal (GI) histopathologists (CPs), consultant GI radiologists (CRs) and IBD nurse specialists (NSs), and were recruited from two separate regions in the UK (the Southwest region and London), across multiple institutions. Participation was voluntary, and informed consent was obtained from all participants prior to data collection. Anonymity was ensured throughout the study. The sample size was determined on the basis of the ‘saturation’ of the themes that emerge from participant interviews: that is, when similar themes are being extracted, the sample was deemed adequate.<sup>23</sup> This is a standard sample size estimator used in this type of qualitative research.<sup>18</sup>

### Data analysis

The standard recommended analytical techniques were used for analysis of the qualitative data that emerged from the study.<sup>18</sup> All interviews were audiotaped and transcribed verbatim. Transcripts were cross-checked with the original recordings to ensure accuracy. Each transcript was subsequently analysed for content to identify emergent themes by a coder (JR). Emergent themes were reviewed by a second

member of the research team (PM) who was blind to the theme extraction process, and key themes were tabulated. To establish confirmability in accordance with qualitative research, all themes were finally reviewed by a senior member of the research team (NS) with a background in psychology and patient safety.<sup>20</sup>

## RESULTS

Thematic saturation was achieved after 28 semistructured interviews (six CSs, six IBD NSs, seven CGs, five CR and four CPs, [figure 1](#)). Individual interviews took place face to face (n=12) and via telephone (n=16) between June and October 2013. Participants were recruited from 10 hospitals, which were a mixture of community hospitals and specialist IBD centres. In the Southwest, 15 participants were interviewed: two CSs, six CGs, three IBD NS, two CRs and two CPs. In the London region, 12 participants were interviewed: three CSs, one CG, three IBD NSs, three CRs and two CPs.

Twenty responding experts were regular attenders to an IBD MDT within their institution. These comprised six IBD NSs, seven CGs, two CPs, two CRs and three CSs. Seven experts described a variable attendance to the IBD MDT. They consisted of two CSs, three CRs and two CPs. There was one consultant CS who did not attend an IBD MDT.

Online supplementary tables S1–S4 summarise the main findings for each question in the interview protocol (ie, the themes extracted), the number of participants who mentioned each theme and relevant illustrative quotations. The code letter suffixed to each quotation refers to consultant CS, CG, CR, CP and IBD NS.

### Role and purpose of the IBD MDT

Online supplementary table S1 describes the information for the role and purpose of the IBD MDT.

#### Role

Fifteen participants, across all healthcare disciplines (one CS, four CGs, three CPs, three CRs and four IBD NSs), thought there was a role for MDT-driven care in IBD. Perceived reasons for this included a recognition of IBD being a complex disease (n=11) and decision-making not being straightforward (n=10). One participant thought that there was no role for the MDT meeting in the care of patients with IBD because ‘resources, time and money are a huge issue; on that basis it’s very difficult in my mind to justify MDTs’ (CS2). The interview was discontinued at 3 min as further discussions relating to IBD MDT structure, format and function was not appropriate.

#### Purpose

Twenty-one participants thought that the purpose of the IBD MDT is to share collective experience and

expertise. In addition, the IBD MDT should aim to provide a consensus on decision-making (n=17) and improve patient outcome (n=15). Twelve respondents felt that an additional purpose should be in the setting of clinical governance. In particular, one CS stated: ‘it protects everyone that’s involved...it’s easier to say, ‘The team decision was’ ...I think that’s an important role that people forget from the MDT...’ (CS4).

### Structural inputs for an effective IBD MDT

Online supplementary table S2 details the necessary requirement for an effective IBD MDT to occur.

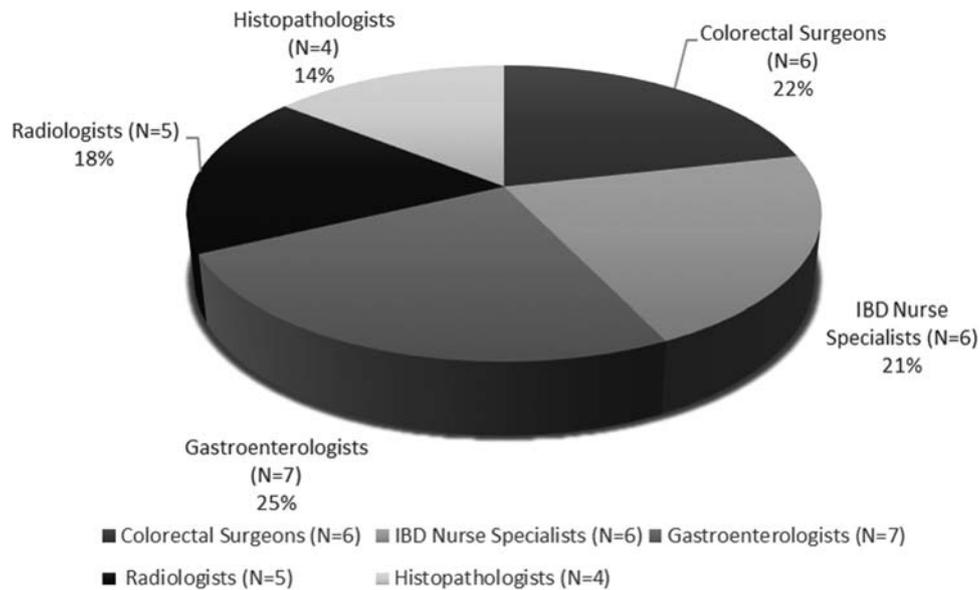
#### Core and extended members of the IBD MDT

Eighteen participants perceived that ensuring a good attendance is considered an important requirement for an effective IBD MDT to occur. Three participants (one CG, one CR and one IBD NS) perceived the attendance of a CS was sporadic. Further definitions of who should be core (regular attenders to the IBD MDT with contractual IBD MDT responsibilities), extended (attender invited by core members to the IBD MDT) and non-members (people who are not invited to attend the IBD MDT) were asked ([figure 2](#)). There was heterogeneity in opinion as to the presence of a histopathologist, dietician and patient as core members of the IBD MDT. It was further suggested that to ensure attendance by those deemed core members, presence should be protected time and apart of the job plan ‘it lacks the pathology input because formally we are not scheduled to go. It’s not part of our job plan to attend this meeting so it is only on a voluntary basis’ (CP1).

Thirteen participants perceived that the patient themselves should not be core members of the IBD MDT and three participants felt that the patient should be core members of the IBD MDT. ‘...the level of discussion and the pace at which decisions are made... if a patient was there it would just slow things down too much...(it) feels uncomfortable saying that because patients should be involved in their decision...you can involve the patient in the decision without them being there at the time of the MDT’ (CS7).

#### Ensuring multidisciplinary contribution

Twenty-two participants perceived that multidisciplinary contribution was a necessary requirement for an effective IBD MDT. One respondent stated that ‘you’re dealing with a lot of personalities’ (NS4). Thirteen participants suggested that a means to facilitate multidisciplinary contribution within the IBD MDT is for the presence of a chair person: ‘...a clear chairperson, who leads the discussion...’ (CP2) and ‘...alternating the chairperson so that it moves from one consultant to the next...’ (NS4).



**Figure 1** Pie chart demonstrating relative proportion of specialists within the multidisciplinary sample—there were six consultant surgeons, six inflammatory bowel disease (IBD) nurse specialists, seven consultant gastroenterologists, five consultant radiologists and four consultant pathologists.

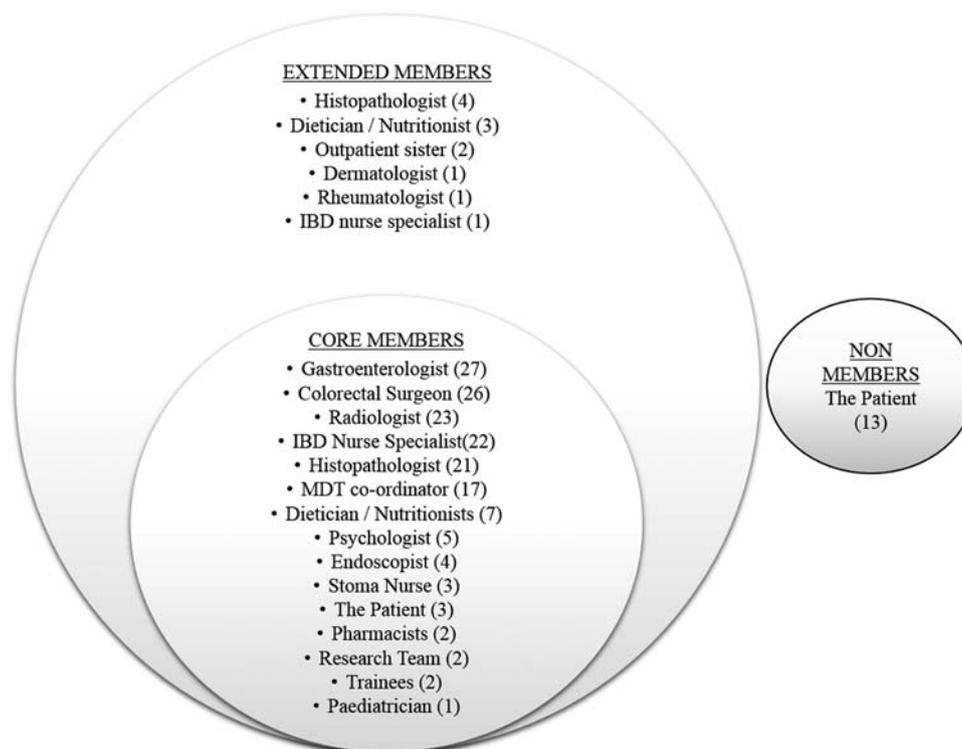
**Logistical considerations for an effective IBD MDT**

Online supplementary table S3 demonstrates logistical considerations deemed relevant by the participants.

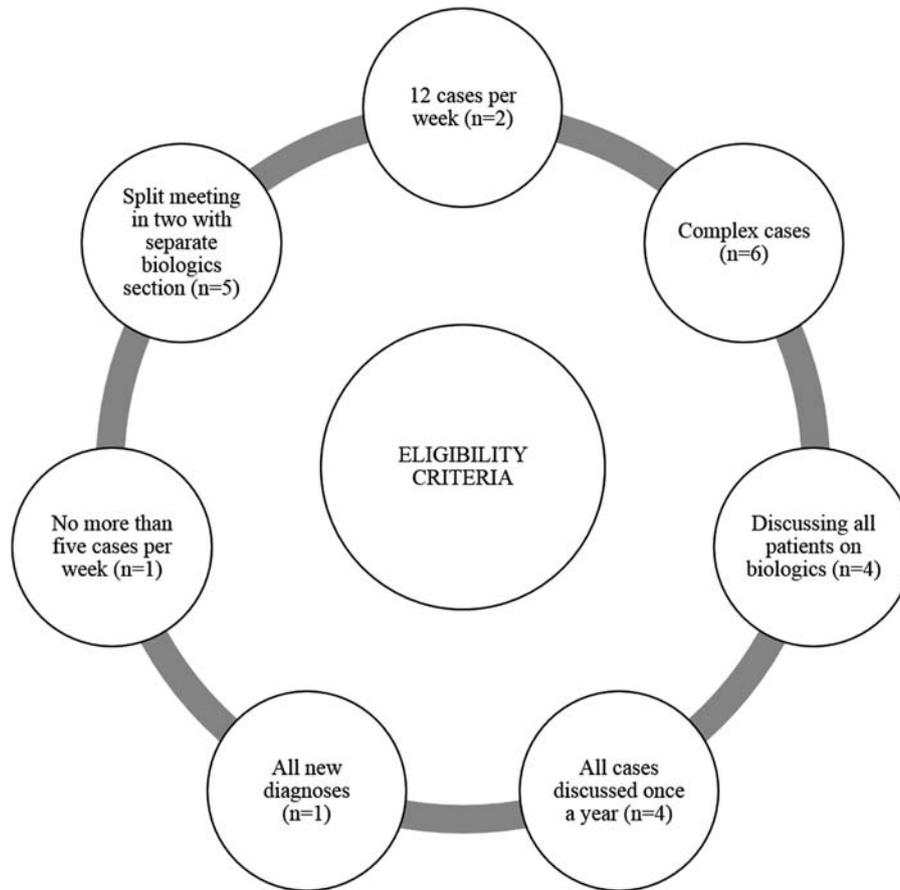
**Eligibility criteria for case discussion**

Nineteen participants agreed that there must be an eligibility criterion applied for case selection and discussion —‘in some places it might be that they can discuss all of

their IBD cases; in others it might have to be selected to the higher risk ones, you know, such as the surgical ones and the non-surgical ones’ (CS6). **Figure 3** demonstrates respondent considerations as to how cases can be selected for discussion in the IBD MDT. High-ranking elements included complex cases only (n=6) and separating patients on biologics into another ‘biologics meeting’ (n=5). Other suggested elements to an



**Figure 2** Perceived responses (and number of respondents) as to who should be core members, extended members and non-members of the inflammatory bowel disease (IBD) multidisciplinary team (MDT).



**Figure 3** Respondent suggestions as to how best to protocol case selection for the inflammatory bowel disease (IBD) multidisciplinary team (MDT)—application of an eligibility criterion for cases to be discussed in the IBD MDT.

eligibility criterion included: all IBD cases to be discussed at least once a year ( $n=4$ ), all new IBD diagnoses ( $n=1$ ), no more than five cases ( $n=1$ ) or 12 ( $n=2$ ) cases to be discussed per MDT session or all patients to be started on biological therapies ( $n=4$ ).

#### Scheduling

The majority of participants ( $n=10$ ) reported that the duration of the IBD MDT should be no longer than 1 h, however, it was stated by one participant that: ‘It depends on the volume of the cases that go through your institution. If you only have one or two cases a week, a half an hour IBD MDT would be quite adequate...If you have to discuss 10 or 15 cases, you might need a two hour MDT...’ (CS4).

The majority of participants ( $n=16$ ) also reported that the IBD MDT should be scheduled for once a week. One participant reported the added benefit this would bring: ‘... if there are any inpatients that need to be discussed...two weeks is too far apart’. However, the same participant also stated: ‘...if you’re a small unit, or a small hospital... an hour once a week...there may be no patients to discuss, or one or two patients to discuss...’ (CG7).

#### Overall design of an effective IBD MDT

Online supplementary table S4 discusses elements to consider in the overall design of the IBD MDT.

Seven participants favoured a hub-and-spoke model, where multiple smaller units were linked into a centralised IBD unit via teleconference capabilities. Concerns were raised as to the resources and constraints this may place on the central unit, and suggested: ‘...some happy medium ... it may be that two hospitals would be okay’ (CS6). Medicolegal concerns were also raised to this model: ‘...we’ve had cases where consultants from elsewhere have provided us with clinical details (of) a patient that we’ve never seen...and we’re meant to be making decisions about what happens to them... I get quite nervous about that’ (NS4). The majority of participants ( $n=10$ ) favoured a single-centre model, where each institution holds their own IBD MDT.

#### DISCUSSION

The study reveals some of the key elements and requirement for an effective IBD MDT as perceived by expert healthcare providers currently involved in IBD care. Overall, there was a positive perception of the role of the MDT in IBD care among all participants within the multidisciplinary group, however, a

range of potential elements to consider for good MDT working were mentioned.

First, the need for good attendance was described as a necessity for the establishment of an effective IBD MDT, in order to facilitate effective decision-making. From our participants, CSs, CRs and CPs admitted to being variable or non-attenders to the IBD MDT. Frustrations were also raised by CGs with the variable attendance of certain specialists, particularly CSs, and the impact this has on shared decision-making. The respective experts were also viewed as core members of the IBD MDT (figure 2). Non-attendance of key members is a barrier to effective decision-making in the IBD MDT setting.<sup>24 25</sup> Recommendations made by the participants to ensure attendance included making the IBD MDT part of the job plan and ensuring that it is protected time.

Second, there was a requirement for multidisciplinary contribution for an effective IBD MDT to occur. Studies in UK cancer MDTs, which have been implemented for almost 20 years, have shown contributions from physicians outweigh those from nurses<sup>26</sup> and an overall bias of the MDT towards the biological side of cancer at the expense of the psychosocial circumstances of the patient—which are often left to the surgeon who sees the patient in clinic to manage alone. The presence of different personalities within the IBD MDT was viewed as source of varying contribution. A means to improve this was by introducing an alternating formal chair person who can lead discussions and ensure multidisciplinary contribution. A recommendation that was consistent with a previous UK-based study that found the role of the chair can rotate between team members with adequate chairing skill.<sup>27</sup>

An emergent theme that arose was the need for a selection process to limit the demands on the IBD MDT. Numerous suggestions were made, including discussing no more than five patients in one session, splitting the meeting so those on biological therapy are discussed separately, or discussing only ‘complex’ IBD cases, with complex IBD defined by one participant as those requiring surgery.

Viewpoints on the scheduling of the IBD MDT varied considerably. Many believed that appropriate scheduling should depend on and be decided by core members within the institution to maximise attendance. Most participants agreed however that having a meeting once a week was sufficient and lasting no longer than 1 h. Scheduling the meeting once a week had the added benefit of discussing inpatient or urgent cases, however, in institutions attending to a smaller volume of patients with IBD, weekly meetings may not have the necessary number of cases discussed to use the time. These institutions may benefit with having the IBD MDT combined with other MDTs. Most participants, however, agree that the IBD MDT should be solely for the discussion of patients with

IBD. In such cases, a ‘hub-and-spoke’ model would also benefit smaller institutions.

The above findings are subject to the limitations of this study. First, expert opinions from the participants may not be fully generalisable to other IBD experts, especially considering that IBD MDTs are being increasingly recognised across multiple European and North American institutions. Despite this, interviews have occurred across five mainstream IBD groups, and a wide geographical area within the UK was covered, involving multiple institutions including district general hospitals as well as teaching hospitals. Second, the duration of the interviews was short and lacks ‘prolonged engagement’ which is a recognised criterion to ensure credibility in qualitative research.<sup>20</sup> Third, the process of member checking while considered a good practice by some, it does carry the potential risks of changing the spontaneous response offered during the interview process<sup>28</sup> (although this was not observed in this study, as none of the participants edited or amended their prior responses when member checking was carried out). Despite these limitations, the use of semistructured interviews was appropriate to meet the aims of the study. Evidence provided from the findings of this study will be validated through Delphi consensus.

MDT-driven care is arising intuitively within the setting of IBD. There is, however, much variation in the conduct of the MDT, impeding its effectiveness in the delivery of a high-quality care. In order to standardise cancer care, measures were introduced to improve care provision with the overall purpose of ensuring high-quality care. Such measures included interventions to support clinical decision-making through the cancer MDT meeting.<sup>7</sup> Variability in the workings of the cancer MDT has been demonstrated and protocols for the structure of this meeting have been devised and implemented.<sup>29</sup> A recognition that the MDT is an acceptable model by which to deliver safe and high-quality cancer care has been established, and a requirement of organisational support was necessary to ensure the delivery of the MDT. Furthermore, the need of a locally agreed minimum data set on each patient has been recognised as a logistical necessity for the cancer MDT.<sup>30</sup> Interestingly, these elements did not transpire as an emergent theme within this study—but on the other hand, these important considerations were not specifically addressed in the interview protocol. Such elements deserve further investigation. Evidence has supported improved outcomes following the implementation of these measures in general.<sup>11 13 31 32</sup> Providing a standardised framework for the IBD MDT will enhance its capacity to establish effective quality improvement, better outcomes and patient experience in IBD care. Lessons already learnt from the standardisation of the cancer MDT can be implemented into the setting of

the IBD MDT so as to avoid repetition of error, and progress towards a swift delivery of MDT-driven care within IBD.

In conclusion, the MDT meeting is widely employed by institutions throughout the UK in the care of patients with IBD. This study explores, in depth, some of the issues that surround requirements and logistics for an effective IBD MDT to occur. Emergent themes include the need for good attendance by core members, coordinated multidisciplinary contribution with an alternating chair person, appropriate case selection and scheduling. Defining key elements for the optimal design format for the IBD MDT is necessary to ensure quality of care and reduce variation in care standards. This study demonstrates the methodology used for construction of provisional standards for the IBD MDT through interviews from a multidisciplinary group. Selection and adjustments of these standards through expert consensus are required to validate measures.

### Key messages

#### What is already known about this subject?

- ▶ Variability exists in IBD service provision across institutions nationally. MDT driven care is arising intuitively within IBD care, but there is a lack of clear evidence for this practice and a lack of consistency in its implementation in the setting of complex IBD.

#### What are the new findings?

- ▶ Participants perceived the purpose of the IBD MDT should be to provide a consensus on decision-making and improve patient outcome. There is a need to define the role of specialists as 'core' and 'extended' members of the IBD MDT to ensure attendance and proactive contribution. An eligibility criteria was perceived to be necessary for case selection and discussion in the IBD MDT.

#### How might this impact on clinical practice in the foreseeable future?

- ▶ This study has elicited provisional standards for the IBD MDT through interviews from a multidisciplinary group. Selection and adjustment of these standards though expert consensus are required to validate measures, which will help the IBD MDT establish effective quality improvement and improved outcomes.

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**Competing interests** NS and JG delivers teaching and consultancy-based work on evaluating and improving MDT effectiveness and team processes for hospitals in the UK and internationally.

**Ethics approval** NRES Committee Yorkshire & The Humber—Humber Bridge.

**Provenance and peer review** Not commissioned; externally peer reviewed.

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Supplementary data - TABLES

Table 1 – Details the parameters, numbers of respondents and representative quotations to the role and purpose of the MDT in IBD care.

<b>Table 1 The role and purpose of the IBD MDT</b>		
<u>PARAMETER</u>	<u>RESPONDENTS</u>	<u>REPRESENTATIVE QUOTATIONS FROM MDT MEMBERS</u>
<b>Question: Is there a role for an MDT in the care of patients with IBD?</b>		
Yes	15	<i>"IBD is a complex medical condition (that) involves the input from a wide range of disciplines, hence 'multidisciplinary', and the decision-making is often not straightforward" CG7</i>
No	1	<i>"Resources, time and money are a huge issue, on that basis it's very difficult in my mind to justify MDTs...you need good team working with appropriate specialists and the physician and the surgeon and the patient, and the radiologist" CS2</i>
<b>Question: If so, what should the purpose of the IBD MDT be?</b>		
Improve patient outcome	15	<i>"...to give the best quality care to the patients...in IBD surgery it's to minimise emergency operations. I think that's its chief role. We know that the outcomes are much worse in that group of patients." CS4</i>
To share collective experience/expertise	21	
Provide consensus on decision making	17	<i>"It engenders a team-working approach and where decisions are difficult it's always good to bounce ideas off of colleagues..." CS4</i>
Clinical governance	12	<i>"...the MDT's also important because with the open publication of complications ... it protects not only the patient, but the individuals, the surgeons, the stoma therapists, everyone that's involved. And it's easier to go to a patient and say, "The team decision was..." And I think that's an important role that people forget from the MDT..." CS4</i>
<i>MDT = Multidisciplinary Team; IBD = Inflammatory Bowel Disease; CS = Consultant Colorectal Surgeon; CG = Consultant Gastroenterologist</i>		

Table 2 – Details the parameters, numbers of respondents and representative quotations for structural inputs and necessities required for an effective IBD MDT care.

<b>Question: What factors are required for an effective IBD MDT to occur?</b>		
<u>PARAMETER</u>	<u>RESPONDENTS</u>	<u>REPRESENTATIVE QUOTATIONS FROM MDT MEMBERS</u>
Good attendance	18	"...surgical attendance can be quite variable.... we have radiology, pathology, medical gastro and occasional attendance of colorectal surgery... we definitely need to work towards getting more colorectal presence there because (of) joined up decision making." CG6
Protected Time	14	"...it lacks the pathology input because formally we are not scheduled to go. It's not part of our job plan to attend this meeting so it is only on a voluntary basis..." CP1
Proactive multidisciplinary contribution	22	"you're dealing with a lot of personalities....various methods (include) ... alternating the Chairperson so that it moves from one consultant to the next," NS4
Provision for research and education	13	"... (You can) introduce the concept of trials for people who don't understand, or who aren't aware of some of the trials that are ongoing at the time. It is the place where ideas can be generated based on difficult situations or situations that aren't necessarily straightforward. And so it is the cornerstone of research." CS4
Specific question addressed	13	"...in trying to make it an efficient process ...there should be criteria of those patients who are clearly going to benefit ...there should be a specific reason or a key question to be answered that can really only be answered by the MDT" CR2
Ownership	13	"...the person who is presenting that case should either write in the notes or ... write a letter to the patient or the GP saying, 'Your case has been discussed and this is the outcome.' NS6
Chair person	13	"There must be a clear chairperson, who leads the discussion....there must be a question in mind, so a brief summary, someone to present a brief summary, and then a specific question in mind, so that it will run smoothly" CP2
Documentation	15	"MDT pro-forma, which is really useful and has everything about the patients all on a couple of sheets with all of their charts, history and everything else and up-to-date X-rays and everything else that we need, so that's really good." NS2.
Appropriate resources	27	"...infrastructure that worked. It would be incredibly frustrating if that were inadequate in any way... from a radiologist's perspective really good facilities for reviewing cases. ...so just a workstation with a means of beaming that...the pathologist would have their stipulations around microscopes and all that sort of thing...you need a coordinator, somebody who can record things. You want previous results flashed up." CR5
Feedback on cases	13	"feedback regardless of what you do is important, and I think it can be a learning opportunity as well...if we were going to audit the outcomes of the MDT you could feed that back to the clinical governance meeting that happens once a month, or someone could write a paper on the outcomes of an MDT" CR3
MDT = Multidisciplinary Team; IBD = Inflammatory Bowel Disease; CS = Consultant Colorectal Surgeon; CR = Consultant GI Radiologist; CG = Consultant Gastroenterologist, NS = IBD Nurse Specialist; CP = Consultant Pathologist		

Table 3 – Details the parameters, numbers of respondents and representative quotations in logistical considerations required for an effective IBD MDT.

<b>Table 3 - Logistics for an effective IBD MDT</b>		
<b>Question: What logistical considerations are required for an effective IBD MDT to occur?</b>		
<u>Parameter</u>	<u>Respondents</u>	<u>Representative Quotations from MDT members</u>
Duration of one hour	10	<i>"It depends very much on the volume of the cases that go through your institution. If you only have one or two cases a week, a half an hour IBD MDT would be quite adequate...If you have to discuss 10 or 15 cases, you might need a two hour MDT. And depending on the complexity you need to add a factor in to that as well." CS4</i>
Scheduled once a week	16	<i>"You could argue that it should be once a week so if there are any inpatients that need to be discussed, you know, two weeks is too far apart. But if you're a small unit, or a small hospital, you know, an hour once a week, you know, there may be no patients to discuss, or one or two patients to discuss." CG7</i>
Selective process	19	<i>"in some places it might be that they can discuss all of their IBD cases; in others it might have to be selected to the higher risk ones, you know, such as the surgical ones and the non-surgical ones" CS6 "...some weeks people might feel that, you know, they might not have got their case across, but you, basically, bring your own cases and it's a bun fight for who gets to discuss their case first" CG7</i>
MDT = Multidisciplinary Team; IBD = Inflammatory Bowel Disease; CS = Consultant Colorectal Surgeon; CG = Consultant Gastroenterologist		

Table 4 - Details the parameters, numbers of respondents and representative quotations for the overall design of an effective IBD MDT.

<b>Table 4 -Overall design of an effective IBD MDT</b>		
<b>Question: How would you redesign the IBD MDT to maximise potential?</b>		
<u>Parameter</u>	<u>Respondents</u>	<u>Representative Quotations from MDT members</u>
Hub and spoke model	7	<i>"...it may be that if you had a regionalised one, you might have five surgeons there...I think that would be helpful... But if you've got five surgeons bringing five sets of cases, it might be five hours rather than one hour. So there has to be some happy medium there. It may be that two hospitals would be okay" CS6</i>
Single centre	10	<i>"I get quite nervous, I mean, we've had cases where consultants from elsewhere have provided us with clinical details and requested that a Registrar present their case at our MDT from a patient that we've never seen, never met and we're meant to be making decisions about what happens to them, and I get quite nervous about that" NS4</i>
IBD cases discussed only	11	
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