Background Women with inflammatory bowel disease (IBD) with poor IBD-specific reproductive knowledge experience more voluntary childlessness. This is associated with medication fear, which must be addressed given active IBD during preconception correlates with worse in-tarpartum disease and poor fetal outcomes. The Pregnancy IBD Decision Aid (PIDA) is an online tool offering personalised decision support on fertility, pregnancy, and medications in IBD (IDDF2021-ABS-0062 Figure 1. Screenshot of the Pregnancy IBD Decision Aid tool ). This study aimed to assess PIDA’s impact on knowledge and quality of decision-making among preconception and pregnant IBD patients, and to evaluate its feasibility.

Methods Preconception and pregnant patients (18-45yrs) from Canada and Australia completed questionnaires before and after viewing PIDA. Quality of decision-making and IBD-specific pregnancy knowledge were assessed using:

1. Decisional Conflict Scale (DCS)
2. Self-Efficacy Scale (SES)
3. Crohn’s and Colitis Pregnancy Knowledge Score (CCPKnow).

Patients and clinicians completed feasibility surveys following PIDA review. Paired t-test assessed PIDA’s limited effectiveness.

Results DCS and SES were completed by 42 Crohn’s disease and 32 ulcerative colitis patients (preconception: n=41; pregnant: n=33). DCS improved for preconception and pregnant patients post-PIDA (effect size 0.44, p<0.0001). SES improved for preconception patients (effect size 0.32, p=0.0001), and in both cohorts CCPKnow also improved (n=76, effect size 0.66, p<0.0001). Seventy-three patients assessed PIDA’s feasibility. PIDA’s length (m=3.05±0.44), readability (m=3.09±0.5) and content amount (m=2.91±0.81) were perceived as appropriate (1=limited, 5=excessive). Perceived usefulness was high among patients (m=4.09±0.93; 1=least useful, 5=most useful). Clinicians (n=14) believed PIDA had appropriate length (m=3.3±0.6), readability (m=3.3±0.8), and content amount (m=3.4±0.8), and deemed PIDA useful for patients (m=4.6±0.8) and themselves (m=4.8±0.8).

Conclusions PIDA improved patient knowledge and quality of decision-making. PIDA may reduce voluntary childlessness.

Background ‘CCCare’ is an inflammatory bowel disease (IBD)-specific electronic medical record (eMR) developed to support care for adults with IBD. CCCare-P is the paediatric version of CCCare. CCCare-P may provide coordination of care between paediatric and adult centres during transition. A consensus method, described here, was developed prior to CCCare-P build to ensure necessary inclusions were incorporated. We aim to examine this method’s effectiveness.

Methods A consensus group (CG) comprising adult and paediatric health care professionals was formed. The CG created a list of potential functionalities (e.g. ability to score disease activity) and supporting resources (e.g. Pediatric Ulcerative Colitis Activity Index [PUCAl]). The CG met and reviewed this list, identifying common themes. The CG was divided into three working groups (WG) based on identified functionalities and supporting resources, and later presented their findings to the CG in an online, two-day meeting. After circulating meeting minutes, attendees completed VR2. The content validity index method (CVI) was used to judge which functionalities and resources reached consensus (CVI 0.78).

Results All five WG1 functionalities reached consensus in both voting rounds. The consensus process led to additional resources being included in VR2, with the number deemed necessary for inclusion in VR2 being 38 (68% consensus) compared to 23 in VR1 (65% consensus). All five WG2 functionalities and 11/15 resources reached consensus in VR2. For WG3, 4/8 functionalities and 3/8 resources reached consensus in VR1;
with 4/6 functionalities and 6/17 of resources reaching consensus in VR2.

Conclusions A consensus process was used to determine consensus for functionalities and resources needed to support CCCare-P. Most standard inclusions (e.g. disease activity indices) were non-contentious and thus minimally influenced by the consensus process. Conversely, complex items (e.g. mental health assessments) were markedly more influenced.

IDDF2021-ABS-0075 ANALYTICAL AND CLINICAL PERFORMANCE OF AUTOMATED IMMUNOTURBIDIMETRIC ASSAY FOR DETECTING FECAL CALPROTECTIN

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Background The purpose is to evaluate the ability of a new automated immunoturbidimetric assay for detecting fecal calprotectin (FC), to compare its analytical and clinical diagnostic performance with ELISA assay, and to analyze whether it is suitable for distinguishing the severity of intestinal inflammation.

Methods According to the clinical diagnosis, 413 patients were divided into two groups: mild inflammation group (MIG), including normal control, polyps, irritable bowel syndrome and non-progressive adenoma; severe inflammation group (SIG), including progressive adenoma, Crohn’s disease, ulcerative colitis and cancer. Each patient’s fecal samples were tested for calprotectin by turbidimetric immunoassay and ELISA. The FC results are calculated and compared.

Results The data range of turbidimetric immunoassay was 0-3500 μg/g feces, while that of ELISA was 0-4500 μg/g feces. There were 141 cases in MIG and 272 cases in SIG. The mean concentration of feces calprotectin in MIG was significantly lower than that in SIG (P < 0.01) (IDDF2021-ABS-0075 Figure 1). Passing bablok regression showed that there was a good correlation between the two methods (IDDF2021-ABS-0075 Figure 2). At the 50 mg/kg cut-off value of turbidimetric immunoassay manufacturer’s guide, the sensitivity of 82.0% (95%CI :76.8% to 86.3%) and specificity of 80.1% (95%CI: 72.4% to86.2%) could be calculated, and the PPV was 88.8% (95%CI :84.1% to 92.3%) and the NPV was 69.8%(95%CI :62.0% to 76.6%). When the cut-off value was increased, the PPV increased but the sensitivity decreased, and it was not suitable for screening test (IDDF2021-ABS-0075 Table 1).

Conclusions We found immuno turbidimetric assay showed good analytical performance compared with ELISA for detection of fecal calprotectin. The immuno turbidimetric assay also showed good clinical performance being suitable for detecting severe intestinal inflammatory diseases and had a shorter measuring time which made it suitable for laboratories with a high throughput of samples.

IDDF2021-ABS-0081 DETECTION OF HELICOBACTER PYLORI CAGA, VACA, ICEA VIRULENCE GENES IN PATIENTS WITH GASTRIC CANCER

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Background Helicobacter pylori (H. pylori) infection causes chronic gastritis, peptic ulcer, gastric cancer and MALT-lymphoma. The association between genotypes of H. pylori and...