Disability in Inflammatory Bowel Disease: Translation to Portuguese and Validation of the ‘‘Inflammatory Bowel Disease – Disability Score’’

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Abstract

Background: Inflammatory bowel disease (IBD) has a physical, psychological and social impact, often compromising the patient’s ability to perform daily activities. Recently a new measurement for disability in IBD was developed. The Inflammatory Bowel Disease-Disability Score (IBD-DS) comprises the following domains: mobility, self-care, major daily life activities, gastrointestinal-related problems, mental health and interaction with the environment. The aim of our study was to translate to Portuguese and to validate the IBD-DS.

Methods: Eighty-five patients, 55 with Crohn’s disease (CD) and 30 with ulcerative colitis (UC), completed the Portuguese version of the IBD-DS and the short inflammatory bowel disease questionnaire (SIBDQ-10 questions). Disease activity was assessed using the Harvey-Bradshaw (HB) for CD and partial Mayo score (pMayo) for UC. Pearson’s correlation coefficient was used to assess the correlation between the IBD-DS and SIBDQ. The Student’s t-test was used to compare the mean of IBD-DS between active and inactive disease. Statistical analysis was performed with SPSS 21.0 and the statistical level of significance (α) was established at 5%.

Results: In our study, a significant negative correlation between the IBD-DS and the SIBDQ was observed (r = −0.858, p < 0.001 for CD and r = −0.933, p < 0.001 for UC). There was a statistically significant difference of the mean of IBD-DS between inactive vs. active disease (93.78 vs. 117.57, p = 0.016 for CD and 78.96 vs. 137.14, p < 0.001 for UC).

Conclusion: The Portuguese version of the inflammatory bowel disease-disability score has a strong correlation with patients’ quality of life and clinical disease activity and was shown to be a valid tool to measure disability in patients with inflammatory bowel disease.

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KEYWORDS
Inflammatory Bowel Diseases;
Crohn Disease;
Colitis, Ulcerative;
Disability Evaluation;
Questionnaires;
Portugal
Inflammatory Bowel Disease – Disability Score

1. Introduction

The inflammatory bowel disease (IBD) comprises Crohn’s disease (CD) and ulcerative colitis (UC), which are chronic diseases with a complex multifactorial etiology and a relapsing-remitting disease course. Clinically, they can present with a diverse set of intestinal, extra-intestinal and systemic symptoms. The chronic nature often requires repeated hospitalizations and lifelong treatments, which compromise all domains of patient’s life (physical, social and psychological).

A more holistic approach to chronic diseases, namely IBD, requires particular consideration for the quality of life and disability related to disease. The World Health Organization defines quality of life as “an individual’s perception of their position in life in the context of the culture and value systems in which they live and in relation to their goals, expectations, standards and concerns”.

In contrast, disability is the human experience of impaired body functions and structures, activity limitations, and participation restrictions in the interaction with environmental factors. Thus, the disability evaluation is an objective determination and differs from subjective assessments such as quality of life.

Until now, attention has been focused on the impact of IBD on patient’s quality of life. On the other hand, disability in IBD remains poorly studied, since only work-related disability in IBD was reported in the literature. Recently, a new questionnaire to evaluate disability in IBD was developed. The Inflammatory Bowel Disease-Disability Score (IBD-DS) comprises the following domains: mobility, self-care, major daily life activities, gastrointestinal-related problems, mental health and interaction with the environment. During the initial evaluation, the questionnaire seemed to be sufficiently valid and useful for evaluation of disability in IBD, however, for a more widespread use its validation in more studies is necessary, particularly in different countries and ethnicities. Thus the aim of our study was not only to translate to Portuguese the IBD-DS but also to apply and validate it in Portuguese patients.

2. Methods

2.1. Inflammatory Bowel Disease Disability Score – Questionnaire

The IBD-DS, a tool for assessing disability reported by patients, comprises a total of 58 questions grouped into 6 domains. Fifty-four questions were scored according to a 5-point Likert scale (1 = no limitation; 2 = slight limitation, 3 = moderate limitation, 4 = severe limitation, 5 = worst limitation) and four questions were a choice between a yes or no answer.
2.2. Translation and cross-cultural adaptation

The initial translation of the questionnaire (in English) to the target language (Portuguese) was performed by two bilingual translators (Portuguese and English). The translators were previously informed about the objectives and underlying concepts of the study, and did not maintain any contact during the process of translation. Two independent translations were obtained. A committee composed by two gastroenterologists, with high fluency in English language and experienced in following patients with IBD, evaluated the equivalence of content between these versions and the original and did the necessary changes to obtain a preliminary version.

To verify the comprehensiveness of the questionnaire, the preliminary version was filled by a sample of 6 patients. Subsequently, and following the doubts reported by patients, the previously referred committee made the necessary modifications to obtain a final version. (Annex 1).

3. Patients

Between June and November 2013, patients with the diagnosis of IBD (UC or CD), with follow-up in our gastroenterology department, were prospectively interviewed during an attending physician visit. We excluded patients seen in urgent context, hospitalized patients, as well as those unable to comprehend the questionnaire.

The patients were informed about the study’s character and those who agreed to participate were enrolled and signed an informed consent form.

Patients were invited to fill the Portuguese version of the IBD-DS and a questionnaire to assess quality of life – the short inflammatory bowel disease questionnaire (SIBDQ).

Patients’ current disease state, with respect to disease activity, was assessed using the Harvey-Bradshaw (HB) for CD and partial (excluding sigmoidoscopy) Mayo score (pMayo) for UC. Crohn’s disease was considered in remission when the HB was <5,10 and UC was considered in remission in patients with a pMayo ≤2 and no subscore >1.11

The study of demographic and clinical variables (disease duration, topography of intestinal lesions, previous surgery or hospitalization related to IBD, extra-intestinal manifestations and medical treatment) was conducted through analysis of medical records from the beginning of the disease until the time of study.

Ninety-six patients with IBD filled the IBD-DS, however 11 (11.4%) were excluded because they were not correctly filled. The 85 questionnaires correctly filled were used to test the validity and internal consistency of the IBD-DS. To study the reproducibility of IBD-DS, within 4 weeks after they completed the IBD-DS, a subset of 17 patients were asked to fill the IBD-DS again (test/retest reliability).

4. Statistical analysis

Using the Gpower® software and taken into consideration the statistical tests employed, we determined the minimum sample size to be hundred eighteen patients.

The statistical analysis was performed using the SPSS – Statistical Package for the Social Sciences – version 21.0. The statistical level of significance (α) was established at 5%.

Descriptive data were described as mean±standard deviation (SD) for quantitative variables and proportions for qualitative ones.

Pearson’s correlation coefficient was used to assess the correlation between the IBD-DS and SIBDQ.

The Student’s t-test for independent samples was used to compare the mean of IBD-DS between active and inactive disease.

To compare the means IBD-DS for variables age at diagnosis and topography of intestinal lesions was used the analysis of variance (one-way ANOVA) and for gender, history of previous surgery or hospitalization, extra-intestinal manifestations and employment status was used the t-test for independent samples.

The internal consistency of the IBD-DS was measured with Cronbach’s alpha coefficient and the reproducibility was assessed using the intraclass correlation coefficient (ICC). Alpha values ≥0.7012 and an ICC ≥0.7013 were considered appropriate.

5. Results

5.1. Patients

The study population included 55 patients with CD and 30 with UC, 53 (62.4%) females, with a mean age of 39.3 ± 12.3 years (17–77 years). The 55 patients with CD included in the study had a mean age of 38.6 ± 11.9 years (17–77 years) and 36 (65.5%) were female. The 30 patients with UC included in the study had a mean age of 40.6 ± 13.3 years (19–65 years) and 17 (56.7%) were female. Twenty-seven patients (31.8%), all with CD, had a previous surgery related to IBD, one of them with an ileostomy. Seven patients (8.2%), all with CD, had a history of perianal disease. Forty-seven patients (55.3%), 40 with CD and 7 with UC, had a previous hospitalization related to IBD.

Eight patients (9.4%), 4 with CD and 4 with UC, were currently under a sick leave and 9 (10.6%) patients with CD were on a disability pension.

The clinical details of patients with CD or UC are shown in Tables 1 and 2, respectively.

5.2. IBD-DS in Crohn’s disease

For patients with CD, the mean values of quality of life and disability, assessed by SIBDQ and IBD-DS, were 44.8 ± 11.9 and 101.6 ± 30.1, respectively.

The quality of life in patients with CD showed a strong negative correlation with the IBD-DS (r = −0.858, p < 0.001).

Patients’ current disease state, with respect to disease activity, assessed using the Harvey-Bradshaw (HB), showed that 37 (67.3%) patients with CD were in clinical remission.

There was a statistically significant difference of the mean of IBD-DS between inactive vs. active disease (93.78 ± 24.09 vs. 11.757 ± 35.37, p = 0.016).

In patients with CD, the study of clinical variables also showed significantly higher scores of disability in women
Table 1 Clinical characteristics of Crohn’s disease patients.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Patients (n = 55)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration of IBD (years)</td>
<td></td>
</tr>
<tr>
<td>mean ± SD</td>
<td>6.7 ± 4.9</td>
</tr>
<tr>
<td>min−max</td>
<td>1−17</td>
</tr>
<tr>
<td>Age at diagnosis, n (%)</td>
<td></td>
</tr>
<tr>
<td>≤16 years</td>
<td>10 (18.2%)</td>
</tr>
<tr>
<td>17−40 years</td>
<td>38 (69.1%)</td>
</tr>
<tr>
<td>≥40 years</td>
<td>7 (12.7%)</td>
</tr>
<tr>
<td>Location, n (%)</td>
<td></td>
</tr>
<tr>
<td>ileal</td>
<td>32 (58.2%)</td>
</tr>
<tr>
<td>Colonic</td>
<td>4 (7.3%)</td>
</tr>
<tr>
<td>Ileocolonic</td>
<td>19 (34.5%)</td>
</tr>
<tr>
<td>Behavior, n (%)</td>
<td></td>
</tr>
<tr>
<td>Non-stricturing, non-penetrating</td>
<td>23 (41.8%)</td>
</tr>
<tr>
<td>Stricturing</td>
<td>15 (27.3%)</td>
</tr>
<tr>
<td>Penetrating</td>
<td>17 (30.9%)</td>
</tr>
<tr>
<td>Current medical therapy for IBD, n (%)</td>
<td></td>
</tr>
<tr>
<td>Steroids</td>
<td>3 (5.4%)</td>
</tr>
<tr>
<td>Aminosalicylates</td>
<td>12 (21.8%)</td>
</tr>
<tr>
<td>Azathioprine</td>
<td>36 (65.4%)</td>
</tr>
<tr>
<td>Biological therapy</td>
<td>17 (30.1%)</td>
</tr>
</tbody>
</table>

\( p = 0.023 \) and patients with extra-intestinal manifestations of CD \( p = 0.002 \). Patients with a sick leave or disability pension also had significantly higher disability scores \( p = 0.013 \). There were no statistically significant different between the mean values of the IBD-DS and the age at diagnosis \( p = 0.109 \), location \( p = 0.898 \) and disease behavior \( p = 0.518 \), perianal disease \( p = 0.677 \), hospitalization \( p = 0.609 \), or IBD-related surgical procedure \( p = 0.052 \) (Table 3).

Table 2 Clinical characteristics of ulcerative colitis patients.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Patients (n = 30)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration of IBD (years)</td>
<td></td>
</tr>
<tr>
<td>mean ± SD</td>
<td>6.2 ± 5.7</td>
</tr>
<tr>
<td>min−max</td>
<td>2−30</td>
</tr>
<tr>
<td>Age at diagnosis, n (%)</td>
<td></td>
</tr>
<tr>
<td>&lt;40 anos</td>
<td>14 (46.7%)</td>
</tr>
<tr>
<td>≥40 anos</td>
<td>16 (53.3%)</td>
</tr>
<tr>
<td>Location, n (%)</td>
<td></td>
</tr>
<tr>
<td>Proctitis</td>
<td>5 (16.7%)</td>
</tr>
<tr>
<td>Left-sided colitis</td>
<td>7 (23.3%)</td>
</tr>
<tr>
<td>Pancolitis</td>
<td>18 (60.0%)</td>
</tr>
<tr>
<td>Current medical therapy for IBD, n (%)</td>
<td></td>
</tr>
<tr>
<td>Aminosalicylates</td>
<td>28 (93.3%)</td>
</tr>
<tr>
<td>Azathioprine</td>
<td>13 (43.3%)</td>
</tr>
<tr>
<td>Biological therapy</td>
<td>8 (26.7%)</td>
</tr>
</tbody>
</table>

\( p = 0.023 \) and patients with extra-intestinal manifestations of CD \( p = 0.002 \). Patients with a sick leave or disability pension also had significantly higher disability scores \( p = 0.013 \). There were no statistically significant different between the mean values of the IBD-DS and the age at diagnosis \( p = 0.109 \), location \( p = 0.898 \) and disease behavior \( p = 0.518 \), perianal disease \( p = 0.677 \), hospitalization \( p = 0.609 \), or IBD-related surgical procedure \( p = 0.052 \) (Table 3).

5.3. IBD-DS in ulcerative colitis

For patients with UC, the mean values of quality of life and disability, assessed by SIBDQ and IBD-DS, were 49.1 ± 13.6 and 92.5 ± 34.2, respectively.

The quality of life in patients with UC showed a strong negative correlation with the IBD-DS \( r = −0.933, p < 0.001 \).

Patients’ current disease state, with respect to disease activity, assessed using the pMayo score, showed that 23 (76.7%) patients with UC were in clinical remission.

There was a statistically significant difference of the mean of IBD-DS between inactive vs. active disease \( 78.96 ± 24.51 \text{ vs. } 137.14 ± 20.58, p < 0.001 \).

Patients with a sick leave or disability pension had significantly higher disability scores \( p = 0.006 \). There was no statistically significant difference between the mean values of the IBD-DS and gender \( p = 0.061 \), age at diagnosis \( p = 0.782 \), extent of disease \( p = 0.321 \), presence of extra-intestinal manifestations \( p = 0.595 \) or previous IBD-related hospital admission \( p = 0.061 \) (Table 4).
to another language does not guarantee its validity and reproducibility, being critical the evaluation of these parameters prior to the widespread application of the questionnaire.

The validity of the Portuguese version of the IBD-DS was assessed by the comparison of the IBD-DS with a questionnaire to assess quality of life of IBD patients, the SIBDQ, a tool sufficiently comprehensive and easy to apply.\textsuperscript{17} We observed a significant negative correlation between the IBD-DS and the SIBDQ ($r = -0.858$ and $r = -0.933$, $p < 0.001$, for CD and UC, respectively), suggesting that a lower quality of life correlated with a higher IBD-DS. These findings are corroborated by the study of Allen et al. ($r = -0.838$, $p < 0.001$).\textsuperscript{9} Other studies further support the relationship between quality of life and work disability.\textsuperscript{6–8}

During the validation of IBD-DS, we also included the assessment of disease activity. In the study by Allen et al.\textsuperscript{9} a significant relationship between the activity of CD, assessed by Crohn’s Disease Activity Index (CDAI), and the IBD-DS was observed. In our study, we chose to use the HB index for assessing activity in UC, because it is easier to apply and has a strong correlation with the CDAI,\textsuperscript{10} and we showed a statistically significant difference of the mean of IBD-DS between inactive vs. active disease. We also showed a significant relationship between the activity of UC and IBD-DS, not observed by Allen et al.,\textsuperscript{9} allowing us to enhance the applicability of IBD-DS in patients with UC.

Recently, another measure to assess disability in IBD was developed. This new tool, called IBD-disability index,\textsuperscript{18} comprises the categories of the ”International Classification Functioning”\textsuperscript{19} that more often are affected in patients with IBD. However, at the time of our study, the IBD-disability index had not yet been validated in patients with IBD.

Furthermore, we also studied variables related to IBD with potential impact on disability. Some studies have reported that CD carries a greater risk of disability than ulcerative colitis.\textsuperscript{20,21} In our study, there was no statistically significant difference in the IBD-DS scores between these two groups of patients. However, in CD, unlike UC, multiple clinical variables, including gender and the presence of extra-intestinal manifestations, correlated significantly with disability. The data concerning the influence of gender on disability are still contradictory. Although, some studies show no differences,\textsuperscript{22} others have found a significant relationship with the female gender.\textsuperscript{6,8} Several hypotheses for this finding are frequently reported in studies. Psychosocial factors and coping strategies may play a role in how women deal with the disease.\textsuperscript{23} Furthermore, women have greater disease-related concerns and worries about being treated differently as a result of their disease,\textsuperscript{24} and are also more likely to report concerns related to attractiveness and body image.\textsuperscript{25,26} The presence of extra-intestinal manifestations\textsuperscript{7,20} was also previously associated with a greater likelihood of temporary or permanent work disability. The IBD affects not only the ability to work, but other important domains of patients’ life. In this context, the fact that variables previously known as predictors of work disability remained significantly related to disability assessed by IBD-DS, emphasizes the importance of the latter in the overall assessment of disability in patients with IBD.

Unsurprisingly, CD and UC patients with a sick leave or disability pension had significantly higher disability scores.

\textbf{Table 4} Mean of IBD-DS for clinical variables in ulcerative colitis patients.

<table>
<thead>
<tr>
<th>Variable</th>
<th>IBD-DS (mean ± SD)</th>
<th>$p$ value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gender</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>79.9 ± 23.8</td>
<td>0.061</td>
</tr>
<tr>
<td>Female</td>
<td>102.2 ± 38.3</td>
<td></td>
</tr>
<tr>
<td><strong>Age at diagnosis</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≤40 years</td>
<td>94.4 ± 29.8</td>
<td>0.782</td>
</tr>
<tr>
<td>&gt;40 years</td>
<td>90.8 ± 38.6</td>
<td></td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proctitis</td>
<td>104.4 ± 19.7</td>
<td>0.321</td>
</tr>
<tr>
<td>Left-sided colitis</td>
<td>100.6 ± 48.6</td>
<td></td>
</tr>
<tr>
<td>Pancolitis</td>
<td>86.1 ± 30.9</td>
<td></td>
</tr>
<tr>
<td><strong>Extra-intestinal manifestations</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>93.7 ± 34.2</td>
<td>0.595</td>
</tr>
<tr>
<td>Yes</td>
<td>82.3 ± 39.8</td>
<td></td>
</tr>
<tr>
<td><strong>IBD-related hospital admission</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>98.9 ± 34.3</td>
<td>0.061</td>
</tr>
<tr>
<td>Yes</td>
<td>71.4 ± 25.9</td>
<td></td>
</tr>
<tr>
<td><strong>Sick leave or disability pension</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>86.1 ± 28.3</td>
<td>0.006</td>
</tr>
<tr>
<td>Yes</td>
<td>134.3 ± 43.9</td>
<td></td>
</tr>
</tbody>
</table>
As previously reported, most disability studies have traditionally focused on work and employment. A recent European survey, presented by the European Federation of Crohn’s & Ulcerative Colitis Associations (EFCCA) in partnership with the European Crohn’s and Colitis Organization (ECCO), assessed burden of IBD in Europe. About half of the patients responded that their life was significantly affected by IBD during their most recent flare-up. Of these, 26% had more than 25 days of annual absence due to IBD. The social and economic impact of disability in IBD patients is colossal, as it is estimated that 20% of patients will eventually receive a disability pension and over 10–25% will face unemployment.

In this topic, the comparison between studies is difficult due to the different socio-economic factors and governmental regulations that determine the qualifications for a sick leave or a disability pension, from country to country. Thus, the use of IBD-DS, a standard measure to quantify disability in IBD, will allow a more uniform and objective assessment of disability in IBD, allowing the comparison of results between different institutions and different countries.

In conclusion, the Portuguese version of the IBD-DS is a valid and easily applicable instrument, thereby making it a useful tool in the evaluation of disability in IBD. The application of a standard measure for evaluating disability in IBD is of great interest, as it will allow for a better perception of the impact of disease in the patient’s life and an objective assessment of disability for the qualification of patients for a sick leave or a disability pension as well as adding a new dimension to the assessment of response to therapy.

Ethical disclosures

Protection of human and animal subjects. The authors declare that no experiments were performed on humans or animals for this study.

Confidentiality of data. The authors declare that they have followed the protocols of their work center on the publication of patient data.

Right to privacy and informed consent. The authors have obtained the written informed consent of the patients or subjects mentioned in the article. The corresponding author is in possession of this document.

Conflicts of interest

The authors have no conflicts of interest to declare.

Acknowledgements

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Annex 1. Incapacidade na Doença Inflamatória Intestinal – Questionário

Incapacidade na Doença Inflamatória Intestinal - Questionário

Mobilidade
1. No mês passado teve alguma dificuldade em efetuar longas distâncias a pé devido à sua doença inflamatória intestinal?
   - Nenhuma [ ]; Pouca [ ]; Alguma [ ]; Muita [ ]; Sempre [ ]
2. No mês passado teve alguma dificuldade em correr longas distâncias devido à sua doença inflamatória intestinal?
   - Nenhuma [ ]; Pouca [ ]; Alguma [ ]; Muita [ ]; Sempre [ ]
3. No mês passado teve alguma dificuldade em permanecer sentado devido à sua doença inflamatória intestinal?
   - Nenhuma [ ]; Pouca [ ]; Alguma [ ]; Muita [ ]; Sempre [ ]
4. No mês passado sua doença afetou a sua capacidade de andar de carro, autocarro ou comboio?
   - Não afetou [ ]; Afetou pouco [ ]; Afetou moderadamente [ ]; Afetou muito [ ]; Afetou sempre [ ]
5. No mês passado a sua doença inflamatória intestinal afetou sua capacidade de viajar, incluindo efetuar viagens de avião?
   - Não afetou [ ]; Afetou pouco [ ]; Afetou moderadamente [ ]; Afetou muito [ ]; Afetou sempre [ ]

Autocuidado
1. No mês passado teve alguma dificuldade em tomar banho sozinho?
   - Nenhuma [ ]; Pouca [ ]; Alguma [ ]; Muita [ ]; Sempre [ ]
2. Tem alguém que o ajude com a sua higiene pessoal?
   - Sim [ ] Não [ ]

Principais atividades devida diária
1. No seu estado de saúde atual, qual o nível de dificuldade que sente ao realizar todo o trabalho necessário no seu emprego?
   - Nenhuma [ ]; Pouca [ ]; Alguma [ ]; Muita [ ]; Sempre [ ]
2. No mês passado sua doença inflamatória intestinal causou-lhe dificuldades na sua capacidade de exercer o seu trabalho?
   - Nenhuma [ ]; Pouca [ ]; Alguma [ ]; Muita [ ]; Sempre [ ]
3. No mês passado sua doença inflamatória intestinal dificultou a realização das suas atividades regulares? (por exemplo: o trabalho em casa, passatempos, emprego, festas, etc.)
   - Não afetou [ ]; Afetou pouco [ ]; Afetou moderadamente [ ]; Afetou muito [ ]; Afetou sempre [ ]

Problemas do foro gastroenterológico
1. No mês passado sentiu cólicas na barriga?
   - Nenhumas [ ]; Poucas [ ]; Algumas [ ]; Muitas [ ]; Sempre [ ]
2. No mês passado teve que se levantar durante a noite para evacuar?
   - Nunca [ ]; Poucas vezes [ ]; Algumas vezes [ ]; Muitas vezes [ ]; Sempre [ ]
3. No mês passado esteve com diarreia?
   - Nunca [ ]; Poucas vezes [ ]; Algumas vezes [ ]; Muitas vezes [ ]; Sempre [ ]
4. No mês passado esteve obstipado?
nunca [ ] ; poucas vezes [ ] ; algumas vezes [ ] ; muitas vezes [ ] ; sempre [ ]

5. No mês passado teve problemas por flatulência excessiva?
nunca [ ] ; poucas vezes [ ] ; algumas vezes [ ] ; muitas vezes [ ] ; sempre [ ]

6. No mês passado teve dores de barriga?
nunca [ ] ; poucas vezes [ ] ; algumas vezes [ ] ; muitas vezes [ ] ; sempre [ ]

7. No mês passado teve problemas por flatulência excesiva?
nunca [ ] ; poucas vezes [ ] ; algumas vezes [ ] ; muitas vezes [ ] ; sempre [ ]

8. No mês passado teve dificuldades em realizar adequadamente a sua higienesco após ter evacuado?
nunca [ ] ; poucas vezes [ ] ; algumas vezes [ ] ; muitas vezes [ ] ; sempre [ ]

9. No mês passado teve incontinência para fezes sem se aperceber?
nunca [ ] ; poucas vezes [ ] ; algumas vezes [ ] ; muitas vezes [ ] ; sempre [ ]

10. No mês passado o número de vezes que foi à casa de banho para evacuar afetou a sua capacidade de viver normalmente?
 não afetou [ ] ; afetou pouco [ ] ; afetou moderadamente [ ] ; afetou muito [ ] ; afetou sempre [ ]

11. No mês passado sentiu algum inchaço na barriga?
nunca [ ] ; poucas vezes [ ] ; algumas vezes [ ] ; muitas vezes [ ] ; sempre [ ]

12. No mês passado teve vômitos?
nunca [ ] ; poucas vezes [ ] ; algumas vezes [ ] ; muitas vezes [ ] ; sempre [ ]

13. No mês passado teve dificuldade em comer normalmente?
nunca [ ] ; poucas vezes [ ] ; algumas vezes [ ] ; muitas vezes [ ] ; sempre [ ]

14. No mês passado teve dificuldade em ganhar peso?
nunca [ ] ; poucas vezes [ ] ; algumas vezes [ ] ; muitas vezes [ ] ; sempre [ ]

15. No mês passado sentiu náuseas ou enjoos?
nunca [ ] ; poucas vezes [ ] ; algumas vezes [ ] ; muitas vezes [ ] ; sempre [ ]

16. No mês passado a sua doença inflamatória causou alguma:
 a. Dificuldade em ir às compras?
nenhuma [ ] ; pouca [ ] ; alguma [ ] ; muita [ ] ; sempre [ ]

 b. Dificuldade em trabalhar?
nenhuma [ ] ; pouca [ ] ; alguma [ ] ; muita [ ] ; sempre [ ]

 c. Dificuldade em socializar com amigos ou família?
nenhuma [ ] ; pouca [ ] ; alguma [ ] ; muita [ ] ; sempre [ ]

 d. Dificuldade na sua relação íntima ou atividade sexual?
nenhuma [ ] ; pouca [ ] ; alguma [ ] ; muita [ ] ; sempre [ ]

 e. Dificuldade na realização das suas atividades de tempos livres?
nenhuma [ ] ; pouca [ ] ; alguma [ ] ; muita [ ] ; sempre [ ]

17. No mês passado precisou de usar fralda por incontinência para fezes?
SIM [ ] NÃO [ ]
18. Tem uma ileostomia ou colostomia?
SIM [ ] NÃO [ ]
Se sim, no mês passado isso afetou a sua vida?
não afetou [ ]; afetou pouco [ ]; afetou moderadamente [ ]; afetou muito [ ]; afetou sempre [ ]
Se sim, no mês passado teve dificuldade em esvaziar o estoma?
nenhuma [ ]; pouca [ ]; alguma [ ]; muita [ ]; sempre [ ]
Se sim, no mês passado preocupou-se com o que os outros pensam do seu estoma?
nenhuma [ ]; pouca [ ]; alguma [ ]; muita [ ]; sempre [ ]
Se sim, no mês passado o seu estoma afetou a sua vida íntima?
não afetou [ ]; afetou pouco [ ]; afetou moderadamente [ ]; afetou muito [ ]; afetou sempre [ ]
Se sim, no mês passado o seu estoma afetou a sua capacidade para realizar exercício físico ou jogos?
não afetou [ ]; afetou pouco [ ]; afetou moderadamente [ ]; afetou muito [ ]; afetou sempre [ ]

Estado Mental
1. No mês passado teve dificuldade em permanecer acordado durante o dia?
nenhuma [ ]; pouca [ ]; alguma [ ]; muita [ ]; sempre [ ]
2. No mês passado sentiu falta de energia?
nunca [ ]; poucas vezes [ ]; algumas vezes [ ]; muitas vezes [ ]; sempre [ ]
3. No mês passado teve dificuldade em sentir-se motivado?
nenhuma [ ]; pouca [ ]; alguma [ ]; muita [ ]; sempre [ ]
4. No mês passado teve dificuldade em dormir?
nenhuma [ ]; pouca [ ]; alguma [ ]; muita [ ]; sempre [ ]
5. No mês passado teve dificuldade em concentrar-se?
nenhuma [ ]; pouca [ ]; alguma [ ]; muita [ ]; sempre [ ]
6. No mês passado teve dificuldade em lembrar-se das coisas?
nenhuma [ ]; pouca [ ]; alguma [ ]; muita [ ]; sempre [ ]
7. No mês passado sentiu-se deprimido?
nunca [ ]; poucas vezes [ ]; algumas vezes [ ]; muitas vezes [ ]; sempre [ ]
8. No mês passado sentiu-se ansioso?
nunca [ ]; poucas vezes [ ]; algumas vezes [ ]; muitas vezes [ ]; sempre [ ]

Fatores Sociais
1. No mês passado a sua doença inflamatória intestinal afetou a sua capacidade de socializar com outras pessoas?
não afetou [ ]; afetou pouco [ ]; afetou moderadamente [ ]; afetou muito [ ]; afetou sempre [ ]
2. No mês passado a sua doença inflamatória intestinal afetou a sua capacidade para participar em eventos na comunidade?
não afetou [ ]; afetou pouco [ ]; afetou moderadamente [ ]; afetou muito [ ]; afetou sempre [ ]
3. No mês passado a sua doença inflamatória intestinal afetou o seu trabalho?
não afetou [ ]; afetou pouco [ ]; afetou moderadamente [ ]; afetou muito [ ]; afetou sempre [ ]
4. No mês passado a sua doença inflamatória intestinal afetou a sua capacidade de aprendizagem no trabalho (se aplicável)?

não afetou [ ] afetou pouco [ ] afetou moderadamente [ ] afetou muito [ ] afetou sempre [ ]

5. No mês passado a sua doença inflamatória intestinal afetou a sua vida familiar?

não afetou [ ] afetou pouco [ ] afetou moderadamente [ ] afetou muito [ ] afetou sempre [ ]

6. No mês passado a sua doença teve um impacto negativo na sua situação financeira?

não afetou [ ] afetou pouco [ ] afetou moderadamente [ ] afetou muito [ ] afetou sempre [ ]

7. No mês passado teve que receber algum apoio de um familiar próximo?

nunca [ ] poucas vezes [ ] algumas vezes [ ] muitas vezes [ ] sempre [ ]

8. No mês passado teve que receber apoio dos seus amigos?

nunca [ ] poucas vezes [ ] algumas vezes [ ] muitas vezes [ ] sempre [ ]

9. No mês passado teve que receber apoio de um nutricionista, enfermeira ou farmacêutico?

nunca [ ] poucas vezes [ ] algumas vezes [ ] muitas vezes [ ] sempre [ ]

10. No mês passado teve que receber apoio de um familiar próximo?

nunca [ ] poucas vezes [ ] algumas vezes [ ] muitas vezes [ ] sempre [ ]

11. No mês passado teve que receber apoio de algum profissional de saúde (médico do hospital ou médico de família)?

nunca [ ] poucas vezes [ ] algumas vezes [ ] muitas vezes [ ] sempre [ ]

12. No mês passado teve que receber apoio de um nutricionista, enfermeira ou farmacêutico?

nunca [ ] poucas vezes [ ] algumas vezes [ ] muitas vezes [ ] sempre [ ]

13. Tem alguém que o ajude na sua higiene diária, nas suas compras ou outras atividades de vida diária?

NÃO [ ] SIM [ ]

Se sim especifique ………………………………

References


