

### **Supporting Information**

# Diagnostic criteria and Digestive Health and Wellbeing Questionnaires

This appendix was part of the submitted manuscript and has been peer reviewed. It is posted as supplied by the authors.

Appendix to: Potter MDE, Jones MP, Walker MM, et al. Incidence and prevalence of self-reported non-coeliac wheat sensitivity and gluten avoidance in Australia. *Med J Aust* 2020; doi: 10.5694/mja2.50458.

1. Modified Rome IV Criteria for diagnoses of irritable bowel syndrome and functional dyspepsia, including subtypes: from the Digestive Health and Wellbeing Questionnaire, 2018

#### Irritable bowel syndrome

Criteria fulfilled for the last 3 months

- Defined as the presence of pain anywhere in the belly or tummy (abdomen) on at least one day per week in the last 3 months, and two or more of:
  - The pain was sometimes/often/most of the time or always made better or made worse by having a bowel movement;
  - The following features were associated with the pain when it began (sometimes/often/most of the time or always); more bowel motions than usual or fewer bowel motions than usual, or harder bowel motions than usual or looser bowel motions than usual.
  - The following features were associated with the pain when it began (sometimes/often/most of the time or always); harder bowel motions than usual or looser bowel motions than usual.

#### Functional dyspepsia

Fulfil criteria for either the postprandial distress or epigastric pain syndrome subtypes as detailed below.

Functional dyspepsia: post-prandial distress subtype

- Defined by the presence of one of the following being present on more than one day per week) in the last 3 months:
  - o Inability to finish a regular sized meal, or
  - o Feeling uncomfortably full after a regular sized meal.

Functional dyspepsia-epigastric pain syndrome subtype

• Defined as the presence of pain or burning in the stomach or upper tummy (above your belly button but not in the chest) being present one day per week or more.

#### 2. Digestive Health and Wellbeing Questionnaire (2018): validation

#### **Methods**

The updated Digestive Health and Wellbeing questionnaire was prospectively tested in of 80 randomly selected outpatients (not part of the Digestive Health and Wellbeing Study) attending outpatient gastroenterology clinics at John Hunter Hospital, who were approached by research nurses prior to their clinic appointments and asked to complete the questionnaire. They were also asked to complete a brief feasibility questionnaire (including questions about the time to complete the questionnaire and how easy the survey was to read and complete), and a subset were then asked either to fill out and return a questionnaire one week later via post to determine test–retest reliability, or complete the questionnaire again with a clinician or research nurse for concurrent validity. The subsequent full study questionnaire was slightly modified based on the findings from this pilot. Concurrent validity (n = 41) and test–re-test reliability (n = 25), undertaken after one week were analysed by calculating raw agreement (percentage) and Cohen  $\kappa$  statistic. Acceptable validity was defined as agreement exceeding 80% and  $\kappa > 0.2$  (fair agreement).

#### Results

Based on the pilot sample, the mean time to complete the survey was 15 minutes (range, 3–55 minutes), and 95% of participants found the survey "easy" or "extremely easy" to understand and complete. Minor modifications to two questions were made to the questionnaire in line with comments from the feasibility survey. Concurrent validity testing (n = 41) and test-retest reliability (n = 25) indicated acceptable validity aside from two questions which were identified as being problematic (low agreement or small  $\kappa$ ) and were removed from the subsequent full study.

#### References

1. Viera AJ, Garrett JM. Understanding interobserver agreement: the kappa statistic. Fam Med 2005; 37: 360–363.

3. Digestive Health and Wellbeing Questionnaire (2015)

## DIGESTIVE HEALTH & WELLBEING SURVEY



**INSTRUCTIONS:** Please place a tick in the box unless otherwise specified.

| 1. What is your date of birth?  |              |               | 2. Are you?            | Male or Fen                 | nale 🗌   |
|---|--------------|---------------|------------------------|-----------------------------|----------|
| 3. In the <u>last 3 months</u> , how often did your chest)?  Never , Less than one day a month                            | •            | ·             |                        | Ū                           | pain in  |
| One day a week, More than one day   |              |               |                        | aayo a monar <u> </u> ,     |          |
| 4. In the <u>last 3 months</u> , how often hat tummy (we mean above your belly  |              |               |                        | our stomach or up           | per      |
| Never, Less than one day a month<br>One day a week, More than one day   | <del>-</del> | _             | <del>_</del> .         | days a month,               |          |
| 5. In the <u>last 3 months</u> , how often did<br>Never, Less than one day a month _<br>One day a week, More than one day | , One da     | y a month 🗌   | ], Two to three        | _                           | l?       |
| 6. In the <u>last 3 months</u> , how often we Never, Less than one day a month One day a week, More than one day          | ], One day   | y a month 🗌   | ], Two to three        |                             |          |
| 7. In the <u>last 3 months</u> , how often did Never, Less than one day a month One day a week, More than one day         | , One da     | y a month     | , Two to three         | days a month,               |          |
| 8. In the <u>last 3 months</u> , how often did<br>Never, Less than one day a month _<br>One day a week, More than one day | , One da     | y a month 🗌   | ], Two to three        | •                           |          |
| 9. In the <u>last 3 months</u> , how often did (abdomen)?   | you have     | pain or dis   | comfort anywh          | <u>nere</u> in your belly ( | or tummy |
| Never , Less than one day a month One day a week , More than one day  |              | _             | _                      | days a month,               |          |
| Please use the followin<br>Never/Rarely, Sometimes:<br>Most of the time: A  | About 25°    | % of the time | e, <b>Often:</b> About | 50% of the time,            |          |
| 10. At the time when you had ANY di often would you say that:   |              |               | -                      |                             | y, how   |
| a. the discomfort or pain was made b<br>Never/Rarely , Sometimes ,  |              |               | •                      |                             |          |
| b. you had more bowel motions (stoo<br>Never/Rarely, Sometimes,   | ls) than us  | sual when t   | he discomfort          | or pain began?              |          |
| c. you had less bowel motions (stools Never/Rarely, Sometimes,  | •            |               |                        | · •                         |          |
| d. you had looser bowel motions (sto Never/Rarely, Sometimes,   | -            |               |                        |                             |          |
| e. you had harder bowel motions (sto<br>Never/Rarely, Sometimes,  | •            |               |                        |                             |          |
| 11. In the <u>last 3 months</u> , how often dia. you had less than three (0-2) bowe                                       | •            | -             | • •                    | blems with your b           | owels?   |
| Never/Rarely , Sometimes ,  |              |               |                        | vs 🗌                        |          |

| b. you had more than three bowel motions each Never/Rarely , Sometimes , Often ,   | •   | time . A   | Alwavs 🗌   |  |                  |
|--|---|--|--|--|------------------|
| c. your stools been lumpy or hard?   |   |  |  |  |                  |
| Never/Rarely, Sometimes, Often,  | Most of the   | time 🔲, A  | Always 🗌   |  |                  |
| d. your stools been loose or watery?  Never/Rarely, Sometimes, Often,  | Most of the   | time, A  | Always 🗌   |  |                  |
| e. you needed to strain to have a bowel motion Never/Rarely , Sometimes , Often ,  |   | e time 🔲, 🗚  | Always 🗌   |  |                  |
| f. you had been troubled by an urgent need to h  |   |  |  | you rush t   | o a toilet?      |
| Never/Rarely ☐, Sometimes ☐, Often ☐,  | Most of the   | time 🔲, A  | Always 🗌   |  |                  |
| 12. In the last 3 months, how often did you have   | e nausea (a   | feeling of   | wanting to   | be sick)?  |                  |
| Never, Less than one day a month, One day one day a week, More than one day a week   | -   |  | nree days a  | month,   |                  |
| 13. Did your tummy/bowel problems start with   | in 3 months   | of gastroe   | nteritis? N  | lo 🗌 Yes 🗌   | ] N/A []         |
| 14. Did your tummy/bowel problems start within 3   | months of a   | course of a  | antibiotics?   | No 🗌 Yes   | N/A              |
| 15. Do you have stomach or bowel symptoms  | when you e  | eat wheat b  | ased foods   | s (e.g. bread  | d)?              |
| 16. Have you <u>ever</u> been told by a doctor that yo (You may tick more than one box)  | ou have any   | of the follo   | owing cond   | ditions?   |                  |
| Asthma Food allergy  | Rheumatoic  | l arthritis  | An   | xiety Disorde  | er 🗌             |
| Scleroderma Pollen allergy   | Wheat (glute  | en) intoleran  |  | pression   |                  |
| Reflux Animal allergy  | Parkinson's   | disease  | Gl   | aucoma   |                  |
| Diabetes Helicobacter pylori/ulcer   | Psoriasis   |  | Po   | lyps/cancer  | bowel            |
| Crohn's Disease Ulcerative colitis   | Coeliac dise  | ease   | Mi   | graine   |                  |
| 17. Have you ever smoked? No (Please go  | to Q19) Yes   |  |  |  |                  |
|  | 10 & 10), 100   | <i>'</i>   |  |  |                  |
| 19 How often do you NOW smoke?   |   |  |  |  |                  |
| 18. How often do you NOW smoke?  Less often than weekly, At least weekly   | _, At least d   | aily 🗌   |  |  |                  |
| •  | ch of the tin<br>All of   | ne did you<br>Most of  | Some of  | A little of  | None of          |
| Less often than weekly, At least weekly 19. During the past 4 weeks (28 days), how mu  | ch of the tin   | ne did you   |  |  |                  |
| Less often than weekly, At least weekly  | ch of the tin<br>All of   | ne did you<br>Most of  | Some of  | A little of  | None of          |
| Less often than weekly, At least weekly  19. During the past 4 weeks (28 days), how mu so sad nothing could cheer you upnervous  | ch of the tin<br>All of   | ne did you<br>Most of  | Some of  | A little of  | None of          |
| Less often than weekly, At least weekly  19. During the past 4 weeks (28 days), how mu so sad nothing could cheer you upnervousrestless or fidgety   | ch of the tin<br>All of   | ne did you<br>Most of  | Some of  | A little of  | None of          |
| Less often than weekly, At least weekly  19. During the past 4 weeks (28 days), how mu so sad nothing could cheer you upnervousrestless or fidgetyhopeless   | ch of the tin<br>All of   | ne did you<br>Most of  | Some of  | A little of  | None of          |
| Less often than weekly, At least weekly  19. During the past 4 weeks (28 days), how mu so sad nothing could cheer you upnervousrestless or fidgety   | ch of the tin<br>All of   | ne did you<br>Most of  | Some of  | A little of  | None of          |
| Less often than weekly, At least weekly  19. During the past 4 weeks (28 days), how mu so sad nothing could cheer you upnervousrestless or fidgetyhopelessthat everything was an effort  | ch of the tin<br>All of   | ne did you<br>Most of  | Some of  | A little of  | None of          |
| Less often than weekly, At least weekly  19. During the past 4 weeks (28 days), how mu so sad nothing could cheer you upnervousrestless or fidgetyhopelessthat everything was an effortworthless  20. How often during the past 4 weeks did you  | ch of the tin<br>All of<br>the time   | ne did you Most of the time  | Some of the time   | A little of the time   | None of the time |
| Less often than weekly, At least weekly  19. During the past 4 weeks (28 days), how mu so sad nothing could cheer you upnervousrestless or fidgetyhopelessthat everything was an effortworthless  20. How often during the past 4 weeks did you (tick one box on each line) a. Get enough sleep to feel rested upon waking   | ch of the tin<br>All of<br>the time   | ne did you Most of the time  | Some of the time   | A little of the time   | None of the time |
| Less often than weekly, At least weekly  19. During the past 4 weeks (28 days), how mu so sad nothing could cheer you upnervousrestless or fidgetyhopelessthat everything was an effortworthless  20. How often during the past 4 weeks did you (tick one box on each line)  a. Get enough sleep to feel rested upon waking in the morning?  | ch of the tin<br>All of<br>the time   | ne did you Most of the time  | Some of the time   | A little of the time   | None of the time |
| Less often than weekly, At least weekly  19. During the past 4 weeks (28 days), how mu so sad nothing could cheer you upnervousrestless or fidgetyhopelessthat everything was an effortworthless  20. How often during the past 4 weeks did you (tick one box on each line)  a. Get enough sleep to feel rested upon waking in the morning?  b. Awaken short of breath or with a headache?   | ch of the tin<br>All of<br>the time   | ne did you Most of the time  | Some of the time   | A little of the time   | None of the time |
| Less often than weekly, At least weekly  19. During the past 4 weeks (28 days), how mu so sad nothing could cheer you upnervousrestless or fidgetyhopelessthat everything was an effortworthless  20. How often during the past 4 weeks did you (tick one box on each line) a. Get enough sleep to feel rested upon waking in the morning? b. Awaken short of breath or with a headache? c. Have trouble falling asleep? d. Awaken during your sleep time and  | ch of the tin<br>All of<br>the time   | ne did you Most of the time  | Some of the time   | A little of the time   | None of the time |
| Less often than weekly, At least weekly  19. During the past 4 weeks (28 days), how mu so sad nothing could cheer you upnervousrestless or fidgetyhopelessthat everything was an effortworthless  20. How often during the past 4 weeks did you (tick one box on each line)  a. Get enough sleep to feel rested upon waking in the morning?  b. Awaken short of breath or with a headache?  c. Have trouble falling asleep?  d. Awaken during your sleep time and have trouble falling asleep again?   | ch of the tin<br>All of<br>the time   | ne did you Most of the time  | Some of the time   | A little of the time   | None of the time |
| Less often than weekly , At least weekly  19. During the past 4 weeks (28 days), how mu so sad nothing could cheer you upnervousrestless or fidgetyhopelessthat everything was an effortworthless  20. How often during the past 4 weeks did you (tick one box on each line) a. Get enough sleep to feel rested upon waking in the morning? b. Awaken short of breath or with a headache? c. Have trouble falling asleep? d. Awaken during your sleep time and have trouble falling asleep again? e. Have trouble staying awake during the day? f. Get the amount of sleep you needed?  21. Are you taking any proton pump inhibitors?   | ch of the tin All of the time  All of the time  All of the time  (Omeprazol   | me did you Most of the time  Most of the time  Most of the time  Company  C | Some of the time   | A little of the time  A little of the time  A little of the time                   | None of the time |
| Less often than weekly , At least weekly  19. During the past 4 weeks (28 days), how mu so sad nothing could cheer you upnervousrestless or fidgetyhopelessthat everything was an effortworthless  20. How often during the past 4 weeks did you (tick one box on each line)  a. Get enough sleep to feel rested upon waking in the morning?  b. Awaken short of breath or with a headache?  c. Have trouble falling asleep?  d. Awaken during your sleep time and have trouble falling asleep again?  e. Have trouble staying awake during the day?  f. Get the amount of sleep you needed?  21. Are you taking any proton pump inhibitors?  Rabeprazole (Pariet), Pantoprazole (Somac), and Lans | ch of the tin All of the time  All of the time  All of the time  (Comparized to the time)   | me did you Most of the time  Most of the time  Most of the time  Con No  | Some of the time  Some of the time  Some of the time  Some of the time  Yes  Someprazole | A little of the time   | None of the time |
| Less often than weekly , At least weekly  19. During the past 4 weeks (28 days), how mu so sad nothing could cheer you upnervousrestless or fidgetyhopelessthat everything was an effortworthless  20. How often during the past 4 weeks did you (tick one box on each line) a. Get enough sleep to feel rested upon waking in the morning? b. Awaken short of breath or with a headache? c. Have trouble falling asleep? d. Awaken during your sleep time and have trouble falling asleep again? e. Have trouble staying awake during the day? f. Get the amount of sleep you needed?  21. Are you taking any proton pump inhibitors?   | ch of the tin All of the time  All of the time  All of the time  (Comparized to the time)  (Comparized to the time)  (Comparized to the time)  (Comparized to the time) | me did you Most of the time  Most of the time  Most of the time  Company  Most of the time  | Some of the time   | A little of the time  A little of the time  A little of the time  (Nexium),  stone | None of the time |

4. Digestive Health and Wellbeing Questionnaire (2018)



### DIGESTIVE HEALTH & WELLBEING SURVEY

**INSTRUCTIONS:** Please place a tick in the box unless otherwise specified.

| 1. What is your date of birth?/  |                           |        |                         |                   |                  |              |                 |           |           |                      |        |
|--|---------------------------|--------|-------------------------|-------------------|------------------|--------------|-----------------|-----------|-----------|----------------------|--------|
| 2. Sex: ☐ Female ☐ Male  |                           |        |                         |                   |                  |              |                 |           |           |                      |        |
| 3. In the <u>last 3 months</u> , how often: (tick one box on each line)  |                           | Never  | Less than 1 day a month | 1 day a month     | 2-3 days a month | 1 day a week | 2-3 days a week | Most days | Every day | Multiple times a day |        |
| a. Did you have heartburn (a burning discomfo pain in your chest)?   | rt or burning             |        |                         |                   |                  |              |                 |           |           |                      |        |
| <ul> <li>b. Did you feel uncomfortably full after a regular so that it interfered with your regular activities?</li> <li>c. Were you unable to finish a regular-sized med.</li> <li>d. Did you have the feeling that your abdomen</li> </ul> | eal?                      |        |                         |                   |                  |              |                 |           |           |                      |        |
| tummy was bloated?   |                           |        |                         |                   |                  |              |                 |           |           |                      |        |
| e. Did you have a visible swelling of your belly f. Did you have pain or burning in your stomactummy (we mean above your belly button but r chest) which was so severe it interfered with you activities?                                    | n or upper<br>not in your |        |                         |                   |                  |              |                 |           |           |                      |        |
| g. Did you have pain anywhere in your belly or (abdomen)?  | tummy                     |        |                         |                   |                  |              |                 |           |           |                      |        |
| Please use the following responses to help y   | ou answer thes            | se q   | <mark>uest</mark>       | <mark>ions</mark> |                  |              |                 |           |           |                      |        |
| Never/Rarely: Less than 25% of the time, Som time, Most of the time: About 7   |                           |        |                         |                   |                  |              |                 |           | 50%       | of t                 | he     |
| NB: this questions relates to your answer in Questions.  4. At the time when you had pain anywhere (abdomen), how often would you say that: (tick one box on each line)  |                           | or tui | mmy                     | ,                 |                  |              | Never/Rarely    | Sometimes | Often     | Most of the          | Always |
| a.the pain was made better or stopped by havi  | •                         | eme    | nt?                     |                   |                  |              |                 |           |           |                      |        |
| b. the pain was made worse by having a bowe c. you had more bowel motions (stools) than u  |                           |        |                         |                   |                  |              |                 |           |           |                      |        |
| d. you had less bowel motions (stools) than us   | ual?                      |        |                         |                   |                  |              |                 |           |           |                      |        |
| e. you had looser bowel motions (stools) than to f. you had harder bowel motions (stools) than to  |                           |        |                         |                   |                  |              |                 |           |           |                      |        |
| i. you had harder bower motions (stools) than t  | isuai !                   |        |                         |                   |                  |              |                 |           |           |                      |        |
| 5. In the <u>last 3 months</u> , have you had discomtummy, more than one day a week?   | fort (not pain) a         | anyv   | wher                    | e in              | you              | r abo        | dom             | en, s     | stom      | ach                  | or     |
| Yes No [   |                           |        |                         |                   |                  |              |                 | De        |           |                      |        |
|  |                           |        |                         |                   |                  |              |                 | Pag       | 1e 2      |                      |        |

| 6. In the <u>last 3 mont</u><br>problems with your                         | Never/Rarely       | Sometimes                  | Often                    | Most of the time | Always  |         |         |      |
|--|--------------------|----------------------------|--------------------------|------------------|---------|---------|---------|------|
| a. fewer than three (0-2) bowel motions each week?                         |                    |                            |                          |                  |         |         |         |      |
| b. more than three bowel motions each day                                  |                    |                            |                          |                  |         |         |         |      |
| c. lumpy or hard stoo  |                    |                            |                          |                  |         |         |         |      |
| d. loose or watery sto   |                    | .0                         |                          |                  |         |         |         |      |
| e. a need to strain to have a bowel motion?                                |                    |                            |                          |                  |         |         |         |      |
| f. an urgent need to have a bowel movement that made you rush to a toilet? |                    |                            |                          |                  |         |         |         |      |
| made you rush to a to  | люс:               |                            |                          |                  |         |         |         |      |
| 7. Do you think your gastroenteritis (a suc                                |                    |                            |                          |                  |         |         | F       |      |
| Yes 🗌  | N                  | o 🗌 Neve                   | er or rarely have tu     | ımmy             | / bow   | el prol | olems   |      |
| 8. Do you think your of antibiotics?                                       | tummy/bowel pro    | blems (identified          | above) started <u>wi</u> | ithin 3          | 3 mor   | nths of | f a cou | ırse |
| Yes□   | N                  | o                          | er or rarely have tu     | ımmy             | / bow   | el prol | blems   |      |
|  |                    |                            |                          | <b>,</b>         |         | - P     |         |      |
| 9. Do you have stom bread)?  |                    |                            | _                        | en ba            | sed fo  | oods (  | e.g.    |      |
| Yes 🗌  | INC                | o ☐ (go to questior        | 1 1 1)                   |                  |         |         |         |      |
| 10. Which of the foll may tick more than o                                 | ne box)            |                            |                          |                  | n bas   |         | ·       | You  |
| Pain anywhere in the abdomen   | Heartburn          | Inability to finish a meal | Upper stom pain          | ach              |         | Nause   | эа      |      |
| Feeling of bloating  | Swollen abdomen    | Constipation               | Diarrhoea                |                  |         | Skin r  | ash     |      |
| Headache   | Anxiety            | Fatigue                    | Mental clou              | ding             |         | Joint   |         |      |
|  |                    |                            | (fogginess)              |                  |         | musc    | le pain |      |
| Other (please specify  | <u>):</u>          |                            |                          |                  |         |         |         |      |
| 11. Have you reduce  | ed gluten or wheat | in your diet?              |                          |                  |         |         |         |      |
| Yes (partially   | ) 🗌 Yes            | s (completely)             | No ☐ (go to              | o ques           | stion 1 | 14)     |         |      |
| 12. How long have y  | ou been avoiding   | gluten in your die         | et?                      |                  |         |         |         |      |
| Less than 6  |                    | 6 months to 1 year         |                          | ıan 1 <u>y</u>   | year [  |         |         |      |
|  |                    |                            |                          |                  |         |         |         |      |
| 13. Why have you r   |                    |                            |                          |                  |         |         | 141     |      |
| Abdominal symptom  | headache)          | toms (e.g. tirednes        | s, rash,                 |                  |         | ral hea |         |      |
| Gluten free househo  | old Weight loss    |                            |                          |                  | Taste   | prefer  | ence    |      |
| Other  | <u></u>            |                            |                          |                  |         |         |         |      |

| 14. Have you followenters?                   | owe                                      | d any of t                            | he follo | owir  | ng diets        | in the las            | st 3                          | <u>months</u> d         | ue to              | stoma            | ach or l         | bowel                   |                  |
|--|--|---------------------------------------|----------|-------|-----------------|-----------------------|-------------------------------|-------------------------|--------------------|------------------|------------------|-------------------------|------------------|
| symptoms?                                    | Yes No No                                |                                       |          |       |                 |                       |                               |                         |                    |                  |                  |                         |                  |
| Please specify: (Y                           | ou r                                     | nay tick m                            | ore thai | n on  |                 |                       |                               |                         |                    |                  |                  |                         |                  |
| Low FODMAP                                   |  | Vegan Vegetarian Fructose/            |          |       |                 |                       | / sugar Lactose or dairy free |                         |                    |                  |                  |                         |                  |
| Food   |  | Five- two diet High protein/ Low calo |          |       |                 | orie diet Other?      |                               |                         |                    |                  |                  |                         |                  |
| elimination diet                             |  |                                       |          |       | high er<br>diet | nergy                 |                               | (eg. Opti               | fast)              |                  |                  |                         |                  |
|  |  |                                       |          |       |                 |                       |                               |                         |                    |                  |                  |                         |                  |
| <b>15. Have you ev</b> Please tick all bo    |  |                                       | y a do   | ctor  | that yo         | ou have a             | ny o                          | f the follo             | wing               | condi            | tions?           |                         |                  |
| Asthma                                       | 763                                      | Helicoba                              | acter P  | ylori |                 | Diverticu             |                               |                         |                    | Glauc            | oma              |                         |                  |
| Scleroderma                                  |  | Ulcerati                              | ve Colit | is    |                 | Disease/<br>Barrett's |                               | erticulitis<br>sophagus |                    | Migrai           | ne               |                         |                  |
| Reflux                                       |  | Gut Ble                               | edina    |       |                 | Anxiety I             | Diso                          | rder                    | ,                  | Whea             | t (glutei        | <u> </u>                |                  |
|  |  |                                       |          |       |                 |                       |                               |                         |                    | Intoler          | ance             |                         |                  |
| Type I Diabetes                              |  | Rheuma<br>Arthritis                   | atoid    |       |                 | Depress               | ion                           |                         |                    | Coelia           | ic Disea         | ase                     |                  |
| Type 2 Diabetes                              |  | Parkinson's Bowel Pol<br>Disease      |          |       | •               |                       | Liver Disease                 |                         |                    | )                |                  |                         |                  |
| Crohn's Disease                              |  | Psoriasis Bowel Cancer                |          |       | Animal Allergy  |                       |                               |                         |                    |                  |                  |                         |                  |
| Pollen Allergy                               | lergy Food Allergy Please Specify type o |                                       |          |       |                 | ify type of           | food a                        | llergy                  |                    |                  |                  |                         |                  |
| L  |  |                                       |          |       |                 |                       |                               |                         |                    |                  |                  |                         |                  |
| 16. Have you <u>ev</u>                       | <u>er</u> h                              | ad any of                             | the fol  | low   | ing ope         | rations?              | (Υοι                          | ı may tick              | more t             | than o           | ne box,          |                         |                  |
| Anti-Obesity                                 | В  | owel                                  | F        | istul | a Surge         | ry                    | Peri                          | anal absc               | ess                | G                | all Blad         | der                     |                  |
| surgery                                      | R  | esection                              |          |       |                 |                       | Sur                           | gery                    |                    | S                | urgery           |                         |                  |
|  |  |                                       |          |       |                 |                       |                               |                         |                    |                  |                  |                         |                  |
| 17. Have you eve                             | r sr                                     | noked?                                |          |       | Υe              | es 🗌                  |                               | 1                       | No 🗌               | (Pleas           | se go to         | Q19)                    |                  |
| 18. How often do                             | VOI                                      | ı NOW sm                              | oke?     |       |                 |                       |                               |                         |                    |                  |                  |                         |                  |
| No longer smoke [                            | _  |                                       |          | thar  | n weekly        | <b>/</b> □            | At le                         | ast weekly              | / <b></b>          |                  | At lea           | st dail                 | у 🔲              |
| ,      |  |                                       |          |       |                 |                       |                               |                         |                    |                  |                  |                         |                  |
|  |  |                                       |          |       |                 |                       |                               |                         |                    | 1                |                  | I                       |                  |
|  |  |                                       |          |       |                 |                       |                               |                         | Φ                  | the              | Some of the time | Je (                    | None of the time |
| 19. <u>During the pa</u> feel: (tick one box |  |                                       | 8 days   | ), hc | ow muc          | h of the t            | ime                           | did you                 | All of the<br>time | Most of the time | ne o<br>e        | A little of<br>the time | ne of<br>e       |
| icen (non one box                            | 011                                      | ouom iimoj                            |          |       |                 |                       |                               |                         | All of<br>time     | Mo               | Sor              | A li<br>the             | tin No           |
| a. So sad nothing                            | cou                                      | ld cheer yo                           | ou up?   |       |                 |                       |                               |                         |                    |                  |                  |                         |                  |
| b. Nervous?                                  | -1 0                                     |                                       |          |       |                 |                       |                               |                         |                    |                  |                  |                         |                  |
| c. Restless or fidg d. Hopeless?             | ety':                                    |                                       |          |       |                 |                       |                               |                         |                    |                  |                  |                         |                  |
| e. That everything                           | wa                                       | s an effort?                          | )        |       |                 |                       |                               |                         |                    |                  |                  |                         |                  |
| f. Worthless?                                |  |                                       |          |       |                 |                       |                               |                         |                    |                  |                  |                         |                  |

| 20. How often during the poet 4 weeks (20 days) did year   |                 |                  |                  |                      |                  |  |
|--|-----------------|------------------|------------------|----------------------|------------------|--|
| 20. How often during the past 4 weeks (28 days) did you (tick one box on each line)  | All of the time | Most of the time | Some of the time | A little of the time | None of the time |  |
| a. Get enough sleep to feel rested upon waking in the morning  |                 |                  |                  |                      |                  |  |
| b. Awaken short of breath or with a headache?  |                 |                  |                  |                      |                  |  |
| c. Have trouble falling asleep?  |                 |                  |                  |                      |                  |  |
| d. Awaken during your sleep time and have trouble falling asleep again   |                 |                  |                  |                      |                  |  |
| e. Have trouble staying awake during the day   |                 |                  |                  |                      |                  |  |
| f. Get the amount of sleep you needed?   |                 |                  |                  |                      |                  |  |
|  | l               |                  |                  |                      |                  |  |
| 21. What is your height? cms orfeetinch  22. What is your weight? kgs orstonepou   |                 |                  |                  |                      |                  |  |
| 23. Are you taking any proton pump inhibitors?  These include: Omeprazole (Losec), Esomeprazole (Nexium), Rabeprazole (Pariet), Pantoprazole (Somac), and Lansoprazole (Zoton)  Yes \( \sumeq \text{No} \sumeq \text{No} \sumeq \text{\text{No}} \sumeq \text{\text{No}} \sumeq \text{\text{No}} \sumeq \text{\text{No}} \text{\text{\text{No}}} |                 |                  |                  |                      |                  |  |
| 24. Have you taken any of the following medications regularly during (tick all boxes relevant)   | g the pas       | st 3 m           | onths1           | ?                    |                  |  |
| Aspirin (Cartia) Methotrexate O  | ndansetro       | n (Zo            | fran)            |                      |                  |  |
| Clopidogrel (Plavix) Infliximab (Remicade) Le  | peramide        | (Gas             | trostop          | )                    |                  |  |
|  | anitidine (     | Rani,            | Zantac           | )                    |                  |  |
| Sulfasalazine (Salazopyrin) Vedolizumab (Entyvio) D  | omperidor       | ne (Mo           | otilium)         |                      |                  |  |
| Mercaptopurine (Purinethol) Ustekinumab (Stellara) M   | etoclopro       | mide (           | Maxalo           | n)                   |                  |  |
| Azathioprine (Imuran) Predinsone (Steroids) C  | eon (Pan        | creati           | c enzyn          | nes)                 |                  |  |
| Laxatives Please Specify   |                 |                  |                  |                      |                  |  |
| Non-steroidal anti-inflammatory drugs  |                 |                  | •••••            |                      | ·                |  |
| e.g. Ibuprofen (Neurofen), Celecoxib (Celebrex), Meloxicam, (Mobic), D   | clofenac i      | /Voltai          | ren) etc         | <u>;</u>             |                  |  |
| Anti-coagulation or blood thinning medication  |                 |                  |                  |                      |                  |  |
| e.g. Warfarin, Dabigatran (Pradaxa), Rivaroxaban (Xarelto), Apixaban (I  | Eliquis)        |                  |                  |                      |                  |  |
| No (I don't take any of these) ☐   |                 |                  |                  |                      |                  |  |
| Are you on any other medication specifically for your stomach bowel problems?  Please specify  |                 |                  |                  |                      |                  |  |
|  |                 |                  |                  |                      |                  |  |

Thank you very much for participating in this research. We appreciate your time.

This form can be returned:

• in the pre-paid envelope provided

| • | or scanned and emailed to - digestive.health@newcastle.edu.au |
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