



This is a repository copy of *Cognitive deficit and white matter changes in persons with celiac disease: a population-based study*.

White Rose Research Online URL for this paper:
<https://eprints.whiterose.ac.uk/157779/>

Version: Supplemental Material

Article:

Croall, I.D., Sanders, D.S., Hadjivassiliou, M. orcid.org/0000-0003-2542-8954 et al. (1 more author) (2020) Cognitive deficit and white matter changes in persons with celiac disease: a population-based study. *Gastroenterology*, 158 (8). pp. 2112-2122. ISSN 0016-5085

<https://doi.org/10.1053/j.gastro.2020.02.028>

Article available under the terms of the CC-BY-NC-ND licence
(<https://creativecommons.org/licenses/by-nc-nd/4.0/>).

Reuse

This article is distributed under the terms of the Creative Commons Attribution-NonCommercial-NoDerivs (CC BY-NC-ND) licence. This licence only allows you to download this work and share it with others as long as you credit the authors, but you can't change the article in any way or use it commercially. More information and the full terms of the licence here: <https://creativecommons.org/licenses/>

Takedown

If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing eprints@whiterose.ac.uk including the URL of the record and the reason for the withdrawal request.



eprints@whiterose.ac.uk
<https://eprints.whiterose.ac.uk/>

Table 2. Overview of answers given to questions exploring mental health, with results of χ^2 (Chi-squared) analyses examining for differences between study groups

Question	CD responses	Control responses	χ^2 p value
(Anxiety) Ever felt worried, tense, or anxious for most of a month or longer?	31.5% Yes	18.0% Yes	0.025
(Depression) Ever had prolonged feelings of sadness or depression?	58.4% Yes	41.4% Yes	0.015
General happiness with own health?	7.8% (Extremely happy) 33.8% (Very happy) 48.1% (Moderately happy) 7.8% (Moderately unhappy) 1.3% (Very unhappy) 1.3% (Extremely unhappy)	14.6% (Extremely happy) 52.8% (Very happy) 27.1% (Moderately happy) 4.9% (Moderately unhappy) 0.7% (Very unhappy) 0.0% (Extremely unhappy)	0.010
(Suicidal thoughts) Ever thought that life is not worth living?	33.8% Yes	22.1% Yes	0.059
(Self-harm) Ever contemplated self-harm?	19.5% Yes	9.0% Yes	0.025
(Sleep Quality) Trouble falling or staying asleep, or sleeping too much?	40.3% (Not at all) 37.7% (Several days) 15.6% (> half the days) 6.5% (Nearly every day)	52.4% (Not at all) 37.9% (Several days) 7.6% (> half the days) 2.1% (Nearly every day)	0.061