

registration purposes. The development of this type of outcome measurement requests close collaboration with patient organisations, preferable in multinational setting. We hope that the data from our study and the eloquent editorial by our Spanish colleagues may contribute to development of such patient reported outcome measures.

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LINKED CONTENT

This article is linked to Vollebregt et al and Cañete and Domènech papers. To view these articles visit <https://doi.org/10.1111/apt.14599> and <https://doi.org/10.1111/apt.14637>.

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Editorial: finding the coeliacs – should everyone be screened?

In the field of coeliac disease, there are matters that are certain, matters that are uncertain and matters that are frankly unknown. It is certain that coeliac disease can be a significant source of morbidity and that a large proportion of patients are undiagnosed, though this appears to be improving.¹ There is less certainty about whether undiagnosed, untreated coeliac disease is associated with increased risk of mortality, as studies offer conflicting results.² In the category of unknowns is this basic question: which patients should be tested for coeliac disease?

Screening the general population has not been favoured due to (1) the uncertain natural history of long-term asymptomatic undiagnosed coeliac disease; (2) the imperfect specificities of serologies, which would likely yield a large number of false positives when testing a population for a disease with a prevalence of <1%; and, most importantly, (3) a lack of a prospective, controlled study testing any screening strategy with regard to improvement in patient outcomes. Instead of screening, a case-finding approach has been advocated,

but the evidence for this alternative approach has been relatively lacking. It is this void that the study by Hujuel et al addresses.³

The investigators performed a nested case-control study, comparing patients with undiagnosed coeliac disease to matched controls, measuring for indications that would warrant coeliac disease testing. Of concern, chronic diarrhoea was less common in coeliac disease? This was likely due to left-censoring, as patients who were already diagnosed with coeliac disease prior to serum collection were excluded. Thus, it is possible that patients with chronic diarrhoea or irritable bowel syndrome were tested for and diagnosed with coeliac disease long before serum collection and the paradoxical low prevalence of these symptoms in undiagnosed individuals is due to exclusion of such symptomatic patients. Moreover, under-ascertainment of indications may have occurred in the medical record review, as acknowledged by the authors. For example, heartburn was noted in only 1.5%-1.8% and irritable bowel syndrome in 2%-4.5% of the population.

Nevertheless, the study by Hujoel et al offers sobering news about this persistent unknown in coeliac disease. Case-finding has been the default, and there appear to be serious problems with this approach. If identifying the approximately 1% of individuals with coeliac disease is akin to finding a needle in a haystack, it turns out that the needle and the hay are more similar with regard to their shape and texture than we originally thought. The authors rightly conclude that alternatives to case-finding should be considered. Now that the default option has been shown to be flawed, we should seize the opportunity to tackle this unanswered question of which patients should be tested for coeliac disease, and to determine definitively whether the answer is “Everyone.” The project—a large, multicentre randomized trial of screening the general population for coeliac disease—would be ambitious but of great potential benefit.

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