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Name of Journal: World Journal of Gastroenterology  
Manuscript NO: 54235  
Manuscript Type: ORIGINAL ARTICLE

Retrospective Cohort Study  
Non-invasive prediction of persistent villous atrophy in celiac disease

Packova B *et al.* Predictors of VA in CD

Barbora Packova, Petra Kovalcikova, Zdenek Pavlovsky, Daniel Bartusek, Jitka Prokesova, Jiri Dolina and Radek Kroupa

Abstract

BACKGROUND

Celiac disease (CD) is an immune-mediated enteropathy that is primarily treated with a gluten-free diet (GFD). Mucosal healing is the main target of the therapy. Currently, duodenal biopsy is the only way to evaluate mucosal healing, and non-invasive markers are challenging. Persistent elevation of anti-tissue transglutaminase antibodies (aTTG) is not an ideal predictor of persistent villous atrophy (VA). Data regarding prediction of atrophy using anti-deamidated gliadin peptide antibodies (aDGP) and abdominal ultrasonography are lacking.

AIM



Non-invasive prediction of persistent villous atrophy in c



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## Non-Invasive Biomarkers for Celiac Disease

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6616864>

Jun 21, 2019 · Therefore, in a clinical context of a positive anti-tTG Ab, if the **plasma citrulline** is less than 30  $\mu\text{mol L}^{-1}$ , one can **predict** that there is significant **villous atrophy** and one can choose to avoid duodenal biopsy for demonstration of **villous atrophy**.

**Cited by:** 2

**Author:** Alka Singh, Atreyi Pramanik, Pragyan Ac...

**Publish Year:** 2019

## Point-of-care Test Predicts Persistent Villous Atrophy in ...

<https://theceliacscene.com/point-care-test...> ▼

Nov 02, 2017 · **Point-of-Care Test Predicts Persistent Villous Atrophy in Celiac Disease** November 2, 2017 / in Gluten-Free News / by Ellen Bayens Remission rates in **celiac patients** range from 34% to 65% at 2 years after diagnosis, and **persistent villous atrophy** can increase the risk of lymphoproliferative malignancies and hip fractures.

## Non-invasive monitoring of celiac disease | Medical ...

<https://www.mlo-online.com/home/article/13004863/...> ▼

Elevated levels of AAA have been found in 69% of sera from **celiac disease patients** with mild intestinal histology and 85.3% of sera from **celiac patients** with severe lesions. 6 The IgA anti-actin is a potentially valuable marker often overlooked in the arsenal of useful markers for **non-invasive post-diagnostic** follow-up for **monitoring villous atrophy and compliance** to gluten-free diet.

## [PDF] Non-Invasive Biomarkers for Celiac Disease

<https://www.mdpi.com/2077-0383/8/6/885/pdf>





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## Severity of Villous Atrophy at Diagnosis in Childhood Does ...

<https://www.ncbi.nlm.nih.gov/pubmed/32097370>

Feb 24, 2020 · OBJECTIVES: Current pediatric guidelines allow **non-invasive** diagnosis of **celiac disease** in selected children. We investigated in a large cohort study whether the severity of **villous atrophy** at diagnosis is associated with clinical characteristics or long-term health outcomes, thus having a prognostic significance.

**Author:** Sofia Kröger, Kalle Kurppa, Marleen... **Publish Year:** 2020

## Faecal Scent as a Novel Non-Invasive Biomarker to ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6627397>

Despite abstaining from gluten, a small minority (0.83 per 10,000 CD patients per year in The Netherlands) develops refractory coeliac **disease** (RCD) with **persistent** or recurrent **villous atrophy**. This is often accompanied by severe diarrhoea, weight loss and malabsorption. Refractory coeliac **disease** is subdivided in two types.

**Cited by:** 2

**Author:** Maxine D. Rouvroye, Alfian Wicaksono...

**Publish Year:** 2019

## Celiac disease: Management of persistent symptoms in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3319961>

Mar 28, 2012 · Refractory CD (RCD) describes a distinct clinical entity and represents a subset of non-responsive patients. RCD is defined by symptomatic and **persistent villous atrophy** in patients despite a strict GFD. RCD can be diagnosed after primary failure of GFD or occur as a





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## Predictors of persistent villous atrophy in coeliac ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4012428>

INTRODUCTION. Patients with coeliac **disease** (CD) exhibit **villous atrophy** (VA) and intraepithelial lymphocytosis on duodenal biopsy. This lesion develops as a consequence of gluten ingestion in genetically susceptible individuals, and adherence to the gluten-free diet results in clinical and histologic improvement. 1 However, when follow-up duodenal biopsy is performed to document mucosal ...

Cited by: 86

Author: Benjamin Lebwohl, Benjamin Lebwohl, J...

Publish Year: 2014

## Non-Invasive Biomarkers for Celiac Disease

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6616864>

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Author: Sofia Kröger, Kalle Kurppa, Marleena ...

Publish Year: 2020

## Persistent Villous Atrophy Not Associated With Heart Disease

<https://www.celiac.com/articles.html/persistent...>

Mar 13, 2015 - **Celiac.com** 03/13/2015 - People who suffer from **celiac disease** with **persistent villous atrophy** do not face any higher risk of **ischemic heart disease** or **atrial fibrillation**, according to a