The association of celiac disease with inflammatory bowel diseases is rare. It was basically described as clinical cases. This is usually a hemorrhagic recto colitis. The purpose of our study is to assess the prevalence of CD in patients with IBD and to describe the topographic and phenotypic and progressive features of IBD in patients with CD. We report a new observation.

Keywords: Association, Celiac Disease - Chronic Inflammatory Bowel Diseases

Introduction
Inflammatory bowel diseases (IBD) result from chronic activation of the mucosal immune system under the influence of genetic and environmental factors. They include Crohn’s disease and UC, and are characterized by chronic inflammation of the lining of the digestive tract [1]. Celiac disease is defined by a permanent intolerance of the intestinal mucosa to gluten. It manifests itself by a syndrome of clinical and biological malabsorption, related to total or subtotal villous atrophy of the proximal small intestine, and regressing after gluten exclusion [2, 3].

The association of inflammatory chronic diseases of the intestine (IBD) and celiac disease (MC) has been exceptionally described in the literature in the form of small series or even cases report. The etiopathogenesis of this association is complex and not known; several hypotheses have been mentioned, however none has been confirmed.

The association of the two pathologies is rarely described. We report cases with this association.

Patients and Methodes
The study was retrospective, focused on 5 cases of CM associated with IBD, recruited en 5 years (June 2012 - June 2018). The diagnosis of MC was established on the determination of specific autoantibodies, as well as a high digestive endoscopy with histopathological study of duodenal biopsies. That of the IBD was focused on a bundle of clinical, endoscopic, radiological, histological and evolutionary arguments. All patients were on a gluten-free diet for life and for specific treatment of IBD.

Results
The frequency of the MC-MICI combination was 2.5%. The mean age at the time of diagnosis of CD was 27 years (22-36 years), that of IBD was 38 years (23-40 years); we noted a clear female predominance with a sex ratio H / F = 0.16. No pathological personal or familial antecedent notable in all cases. Diagnosis of both conditions was concomitant en 4 patients, that of CD preceded that of IBD in one case.

Three patients had Crohn’s disease, 2 of whom had ileocecal localization, one patient had pancolitis with anoperineal manifestations. Two patients had a UC, one of whom had a left rectocolic localization and the other had a pancolitis.

The clinical picture was dominated by chronic diarrhea in all cases, followed by abdominal pain and weight loss which were noted en 4 cases. Extradigestive manifestations were dominated by osteoarticular pain en 4 cases. Biological abnormalities suggestive of malabsorption: a hypochromic microcytic deficiency anemia; hypoalbuminemia, hypocholesterolemia, hypoprotidemia, hypocalcemia, hypophosphoremia, and a deficiency in B12 were observed en 3 cases. Anti-transglutaminase and/or antiendomysium IgA antibodies were present in all cases. The endoscopic aspect was suggestive of MC in two cases: Rarification of folds Duodenals, a mosaic appearance in one case (Figure 1), and normal en 2 cases (Figure 2).

Abstract
The association of celiac disease with inflammatory bowel diseases is rare. It was basically described as clinical cases. This is usually a hemorrhagic recto colitis. The purpose of our study is to assess the prevalence of CD in patients with IBD and to describe the topographic and phenotypic and progressive features of IBD in patients with CD. We report a new observation.
The association of CD with Crohn’s disease was the most frequent, contrary to the literature data.

The association of celiac disease with inflammatory bowel disease is rare. Through this work and in general ceoliaca disease [8].

This association is essentially an etiopathogenic problem, several hypotheses have been stated: The association of CD and cranial disease may be a fortuitous association [9]. However familial forms have been described in both CD and in cranial disease, suggesting intervention in each of these two affections of genetic factors [9].

IBD and celiac disease are responsible for a type I immune response, particularly by the involvement of T-type intra-epithelial cells [10]. Both are characterized by a decrease in cellular apoptosis that induces inflammation. A more interesting hypothesis incriminates the increase in intestinal permeability, the latter has been described during IBD, it could be related to the action of TNFα, and could cause bacterial translocation as a consequence of bacterial growth. The increase in intestinal permeability has also been described during MC, caused by the reduction of zonulins [11].

A particular genetic predisposition that may explain this association was evoked by Cotonne et al. A more recent genetic study conducted by Garrett Lawtor et al also confirmed this genetic link of the association, which described three cases in three Sicilian families, having implicated mutation of the MYO IXB gene in both patients with CD and those with IBD, this gene codes for myosins that contribute to cytoskeletal integrity, cell polarity and intercellular junctions [9]. The mutation of this gene would result in an alteration of the intestinal permeability, which would expose many diseases including MC and IBD [12, 13].

The clinical diagnosis of the combination is difficult, since both pathologies can be manifested by diarrhea, abdominal pain, weight loss [14].

The diagnosis of this association is very often fortuitous discovery, on the occasion of the persistence of diarrhea in patients with IBD who do not respond to treatment with a different corticosteroid therapy [13]. MC is based on the combination of the following arguments: Anti-gliadin and anti-endomysium antibodies; frequent association of CD with other autoimmune diseases [2]. However, the diagnosis of IBD is based on several criteria: clinical, biological, endoscopic, histological and progressive on treatment; infiltration of the chorion by gliadin-specific CD4 T lymphocytes [3].

The treatment of the association of CD with IBD is not well codified according to the data of the literature. Treatment was based on a gluten-free diet associated with the treatment of IBD according to the type of IBD, the severity of the thrust, and the location [15, 6, 7].

In our observations, all patients were put on gluten-free diet, combined with corticoid treatment adapted to the severity of the attack.

**Conclusion**

The association of CD with IBD is rare. Through this work and literature data, it is concluded that the aetiopathogenesis of this

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**Figure 2: Aspect duodénal normal**

The histopathological study of duodenal biopsies revealed stage 3 of Marsh-Oberhuber in all casent.

In our series, the Gluten Free Diet (GSR) was prescribed in all our patients, once the diagnosis is retained. A written list of banned products was given to them. It was explained to them that it was a life-long treatment and that even small deviations could be harmful to their health, combined with corticosteroid treatment adapted to the severity of the disease outbreak and a background treatment. Of MCI. Iron supplementation has been prescribed for patients with iron deficiency anemia. Calcium supplementation has been prescribed for patients with hypocalcemia.

The average duration of follow-up was 2 years [1-4]. Good progress was noted in four patients with cranial disease, with clinical improvement marked by a decrease in the number of diarrhea, regression of the anemic syndrome and weight gain, and moderate relapses of UC in one patient. However serologies of celiac disease were not realized (for lack of means). As for the endoscopic and histological explorations, a good evolution was noted en 4 patients and a therapeutic failure in the two other patients (by bad observance of the scheme).

**Discussion**

Inflammatory bowel diseases (IBD) that can affect the entire digestive tract and evolve by interrupted episodes of remission The diagnosis of IBD is based on several criteria: clinical, biological, endoscopic, histological and evolutive treatment [1].

Celiac disease (CD) is defined by an intolerance of the intestinal mucosa to gluten, is manifested by a syndrome of clinical and biological malabsorption and a total or subtotal villous atrophy of the proximal small intestine and regressing after food exclusion gluten [2]. It may be associated with other autoimmune conditions: herpetiform dermatitis, insulin-dependent diabetes, IgA deficiency, dysthyroidism, primary biliary cirrhosis [3, 4].

The association of celiac disease with inflammatory bowel disease is rare, it has been reported mainly in the literature as clinical cases [1]. It is most often a RCH, L The association of celiac disease with Crohn’s disease accounts for only 20% of cases [5-7]. In our series, the association of CD with Crohn’s disease was the most frequent,
association is complex especially genetic, and the need for systematic screening of celiac disease in patients with IBD by performing a high endoscopy with duodenal biopsy, at the initial colonoscopy of IBD, and a comprehensive digestive record in case of therapeutic resistance in patients with IBD.

References

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