

(SNOMED - CT).

INTRODUCTION

Risk factors of patients with Microscopic Colitis and Celiac Disease

Table 1. Multivariable analysis showing risk factors in patients with celiac disease,

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RESULTS

with and without microscopic colitis Of 47,900,300 adult patients in the database, Microscopic colitis (MC) is defined as non-bloody diarrhea 143,290 (0.30%) carried a celiac disease diagnosis. with macroscopically normal colonic mucosa and WITH WITHOUT MULTIVARIATE microscopically abnormal mucosa in the form of collagenous Among CD patients, 70 (0.05%) carried a microscopic MICROSCOPIC MICROSCOPIC ANALYSIS CELIAC DISEASE colitis or lymphocytic colitis. colitis diagnosis compared to 143,220 (99.95%) of COLITIS (n [%]) COLITIS (n [%]) (AOR [95% CI]) the non-CD patients (p < 0.0001). MC affects 10-20% of the population, with true estimates higher as not every patient with chronic non-bloody After multivariate analysis, celiac disease was diarrhea undergoes colonic biopsies. associated with an increased odds of microscopic colitis (aOR = 10.5: 95% CI 8.59-12.94: p = <0.0001) MC is known to be associated with celiac disease (CD), an Total; n= 143,290 70 (0.05) 143,220 (99.95) 10.5 (8.59-12.94) (Table 1). autoimmune disease of the small intestine. We aimed to further characterize the risk profile and epidemiologic association between CD and MC. DISCUSSION METHODS **RISK FACTOR** This large population-based cohort study • We employed a multi-institutional database (Explorys Inc., demonstrated significantly higher odds of MC Cleveland, OH): an aggregate of electronic health record data among patients with celiac disease compared to Female 60 (85.7) 106,640 (74.4) 2.79 (2.47-3.14) from 26 major US health systems. patients without the disease with higher odds in females, older individuals, smokers, use of NSAIDs • We formed cohorts of patients with CD and MC using Senior (age >65) 3.15 (2.83-3.50) and PPIs. 40 (57.1) 18,230 (27.5) Systemized Nomenclature of Medicine – Clinical Terms Our findings are in line with those from previous 2.44 (2.17-2.74) Tobacco use 20 (28.6) 19,480 (13.6) observational studies. Microscopic colitis was defined as SNOMED terms "microscopic colitis" or "collagenous colitis." Larger prospective studies would be beneficial in NSAID use 2.58 (2.22-3.01) 60 (85.7) 99,350 (69.3) identifying the role of gluten exposure in • Univariate and multivariate analyses were performed on the development of microscopic colitis in patients with data, and associations were reported as adjusted odds ratios 2.96 (2.63-3.32) PPI use 40 (57.1) 54,790 (38.2) celiac disease. (aORs) with 95% confidence intervals (CIs) using IBM SPSS Statistics version 28.

