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aphic features of patients, as well as data from	93
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The primary outcome was a diagnosis of aCRN	95
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developing aCRN than natients with IBD only.	98
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d proportions of patients with LGD (21% of	100
ly IBD) differ significantly ( $P = .37$ ). However,	101
s significantly higher in patients with PSC-IBD	102
y IBD (3.0 per 100 patient-years; $P = .01$ ). PSC	103
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v invisible in natients with PSC-IRD than in	105
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low-grade dysplasia: PSC, primary sclerosing cholangitis:	112
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### High Risk of Advanced Colorectal Neoplasi **Primary Sclerosing Cholangitis Associated Bowel Disease** 10 <sub>Q14</sub> Shailja C. Shah,\*,<sup>‡,a</sup> Joren R. ten Hove,<sup>§,a</sup> Daniel Castaned Erik Mooiweer,<sup>§</sup> Jean-Frédéric Colombel,\* Noam Harpaz,\* Ad A. van Bodegraven,<sup>||</sup> Jeroen M. Jansen,<sup>1</sup> Nofel Mahmn Andrea E. van der Meulen-de Jong,\*\* Cyriel Y. Ponsioen,# Bas Oldenburg,<sup>§</sup> Steven H. Itzkowitz,\* and Joana Torres\*, \*The Henry D. Janowitz Division of Gastroenterology, Icahn School of Medicin <sup>‡</sup>Department of Gastroenterology and Hepatology, Vanderbilt University Medica Gastroenterology and Hepatology, University Medical Center Utrecht, Utrecht, Gastroenterology and Hepatology, Vrije Universiteit Medical Center Amsterdar of Gastroenterology and Hepatology, Onze Lieve Vrouwe Gasthuis Amsterdam, Gastroenterology and Hepatology, St Antonius Hospital Nieuwegein, Nieuweg Gastroenterology and Hepatology, Leiden University Medical Center, Leiden, of Gastroenterology and Hepatology, Amsterdam Medical Center, Amsterdam, Gastroenterology and Hepatology, Erasmus Medical Center Rotterdam, Rotter Gastroenterology Division, Hospital Beatriz Ângelo, Loures, Portugal Q5 **BACKGROUND & AIMS:** Patients with inflammatory bowel disease (IBD) termed PSC-IBD) are at increased risk for colorect of low-grade dysplasia (LGD) is not well described. colorectal neoplasia (aCRN), defined as high-grade a diagnosis of indefinite dysplasia or LGD in this **METHODS:** We performed a retrospective, longitudinal study PSC and 1618 without PSC) who underwent more through 2015 in The Netherlands or the United S uation). We collected data on clinical and demogra each surveillance colonoscopy and histologic rep severity of active inflammation was documented. T during follow-up evaluation. We also investigated or without a prior diagnosis of indefinite dysplasi

**RESULTS:** Patients with PSC-IBD had a 2-fold higher risk of d Mean inflammation scores did not differ significant patients with only IBD (0.56) (P = .89), nor did patients with PSC-IBD vs 18% of patients with only the rate of aCRN following a diagnosis of LGD was (8.4 per 100 patient-years) than patients with only (adjusted hazard ratio [aHR], 2.01; 95% CI, 1.09-3 1.05), and active inflammation (aHR, 2.39; 95% CI, aCRN. Dysplasia was more often endoscopically patients with only IBD. 

<sup>a</sup>Authors share co-first authorship.

Abbreviations used in this paper: aCRN, advanced colorectal neoplasia; aHR, adjusted hazard ratio; CRC, colorectal cancer; EHR, electronic health record; HGD, high-grade dysplasia; IBD, inflammatory bowel disease; IBD-U, inflammatory bowel disease undifferentiated; IND, indefinite dysplasia; LGD, lo UC, ulcerative col CONCLUSIONS:

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In a longitudinal study of almost 2000 patients with colonic IBD, PSC remained a strong<br/>independent risk factor for aCRN. Once LGD is detected, aCRN develops at a higher rate in<br/>patients with PSC and is more often endoscopically invisible than in patients with only IBD. Our<br/>findings support recommendations for careful annual colonoscopic surveillance for patients<br/>with IBD and PSC, and consideration of colectomy once LGD is detected.175<br/>176<br/>176

Keywords: Surveillance; Colon Cancer; Crohn's Disease; Ulcerative Colitis.

126 **Q6** Patients with inflammatory bowel disease (IBD) are at an increased risk of developing colorectal 127 **Q7** cancer (CRC).<sup>1,2</sup> The co-occurrence of primary scle-128 rosing cholangitis (PSC),<sup>1,3</sup> a chronic liver disease char-129 acterized by progressive inflammation and fibrosis of 130 the bile ducts,<sup>4</sup> increases this risk substantially.<sup>5</sup> 131 Although an estimated 70% of patients with PSC have 132 a concomitant diagnosis of IBD (termed PSC-IBD),<sup>6</sup> 133 134 only 3% to 5% of patients with IBD have concomitant 135 PSC, with the diagnosis more common in patients with ulcerative colitis (UC).<sup>5,7</sup> The PSC-IBD phenotype often 136 is characterized by extensive colitis with rectal-137 sparing and backwash ileitis, albeit with a mild and 138 often asymptomatic clinical course.<sup>8-13</sup> However, 139 140 despite their mild clinical colitis, patients with PSC-141 IBD compared with patients with only IBD colitis have 142 a 3- to 5-fold higher risk of CRC, and the cancers occur more often in the right colon.<sup>14,15</sup> As such, current 143 guidelines recommend that patients with PSC-IBD be 144 145 enrolled in a CRC surveillance program with an annual colonoscopy from the time of PSC diagnosis, regardless 146 147 of their duration of IBD. This is in contrast to patients with IBD colitis and no PSC (non-PSC IBD), in which 148 149 CRC surveillance is recommended after 8 years of colonic disease.<sup>5,16–18</sup> 150

151 The development of neoplasia in IBD colitis follows a 152 multistep sequence from chronic inflammation and no dysplasia or indefinite dysplasia (IND) to low grade-153 154 dysplasia (LGD) and high-grade dysplasia (HGD), before 155 final malignant transformation to adenocarcinoma. As 156 such, the presence and grade of dysplasia remain the 157 best current indicators of cancer risk in IBD. There is an 158 increasing tendency to keep patients with LGD on intensive surveillance instead of recommending procto-159 colectomy.<sup>19,20</sup> However, very few studies have 160 described the risk of advanced colorectal neoplasia 161 (aCRN) in patients with PSC-IBD after a diagnosis of IND 162 and/or LGD.<sup>21,22</sup> Furthermore, the studies that do report 163 on the risk of neoplasia in patients with PSC-IBD were 164 165 performed in an era in which imaging-enhanced endos-166 copy and high-resolution endoscopy were not used 167 routinely.

168The aims of the present study were to report on the169risk of aCRN in a well-characterized cohort of patients170with PSC-IBD enrolled in a surveillance program in the171modern endoscopic era, and to describe the rate of aCRN172after a diagnosis of IND and/or LGD in these patients173compared with patients with non-PSC IBD and long-174standing IBD colitis also undergoing surveillance.

# Methods

#### Study Population and Case Identification

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Patients with established IBD colitis undergoing colonoscopic surveillance between 2000 and 2015 were identified retrospectively from 2 databases: a Dutch database inclusive of 2 secondary and 6 tertiary centers and the Mount Sinai Hospital database in New York City inclusive of 1 tertiary IBD referral center. Cases were identified by query of the electronic health record (EHR)linked database using both International Classification of Diseases, 9th and 10th revision codes, and free text searches for cases of IBD and also free text searches for PSC.

## Patient Selection: Inclusion and Exclusion Criteria

After initial identification through the EHR query, individual charts were reviewed. For patients with PSC-IBD, a clinical diagnosis of PSC had to be confirmed by distinctive features on cholangiography or liver biopsy (for patients with small-duct PSC). Additional inclusion criteria were as follows: (1) diagnosis of IBD (UC, CD, IBD undifferentiated [IBD-U]) with colonic involvement confirmed endoscopically and histologically; (2)confirmed colonic disease duration of at least 8 years for patients with non-PSC IBD or any colonic disease duration for patients with PSC-IBD; (3) enrollment in a surveillance program; and (4) at least left-sided colitis (UC or IBD-U) or involvement of more than 30% of the colonic surface (CD or IBD-U). Patients with a history of colectomy before enrollment or a history of aCRN before or at the index colonoscopy during the defined study period were excluded. Surveillance procedures were defined as colonoscopies in which either segmental random biopsies or chromoendoscopy were used. Colonoscopies with other indications (eg, medically refractory disease), were excluded. The index colonoscopy was defined as the first surveillance colonoscopy performed within the study period (2000-2015).

#### Data Collection

Database coding was identical for all study pop-<br/>ulations. The date of study entry was set at the first<br/>surveillance colonoscopy in the database. The time of230<br/>231

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