

# Alcohol consumption and early-onset risk of colorectal cancer in Japanese patients with Lynch syndrome: a cross-sectional study conducted by the Japanese Society for Cancer of the Colon and Rectum

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## Abstrak

### **ABSTRACT**

We conducted this study to establish whether drinking alcohol alters the risk of early-onset colorectal cancer (CRC) in Japanese patients with Lynch syndrome (LS). The subjects were 66 LS patients with pathogenic mutation of mismatch repair genes (MLH1, MSH2, and MSH6) from the nationwide Japanese retrospective multicenter study. Cox proportional hazards modeling was used to investigate the factors correlating with early-onset CRC diagnosis, using clinical data such as gender, tobacco use, alcohol consumption, body mass index, gene mutation (MLH1, MSH2 vs MSH6), and family cancer history. Alcohol was significantly correlated with an increased risk of early-onset CRC [HR 2.44, 95% CI 1.13-5.16 (p=0.02)], but tobacco use was not [HR 0.8, 95% CI 0.38-1.62 (p=0.53)]. These findings suggest that alcohol consumption is correlated with an earlier onset of CRC in Japanese patients with LS.