



Meta-analysis and systematic review of the relationship between ulcerative colitis and colon cancer

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After verification, the interpretation of $P < 0.00001$ is significantly different, so it is concluded that there is a relationship between colon cancer and colitis (2). After consideration, in prospective studies, such as cohort studies and randomized controlled trial (RCT), not only relative risk (RR) but also odds ratio (OR) can be calculated (3). Generally, RR is used in many cohort studies and RCT when reporting the results. However, the overall rate of this study is low, so OR is similar to RR, and so it is correct to use OR.

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Ethical Statement: The authors are accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

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References

1. Guo Q, Xu Q, Zhu X, et al. Was ulcerative colitis one of the risk factors of colorectal cancer? J Gastrointest Oncol

- 2022;13:3340.
2. Shivakumar BM, Lakshmanakumar B, Rao L, et al. Colorectal neoplasia in long-standing ulcerative colitis - a prospective study from a low-prevalence area. *Colorectal Dis* 2013;15:e462-8.
 3. Hilmi I, Singh R, Ganesanathan S, et al. Demography and clinical course of ulcerative colitis in a multiracial Asian population: a nationwide study from Malaysia. *J Dig Dis* 2009;10:15-20.

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