Documents

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Role of probiotics in patients with colorectal cancer: A systematic review protocol of randomised controlled trial studies (2020) *BMJ Open*, 10 (8), art. no. e038128, .

DOI: 10.1136/bmjopen-2020-038128

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Abstract

Introduction Colorectal cancer is one of the leading causes of cancer-related morbidity worldwide and it has been reported to be associated with poor lifestyle habits which include excess tobacco and alcohol intake as well as genetics and age factors. Probiotics such as the lactic acid bacteria and Bifidobacterium as well as probiotic containing foods (kombucha, kefir, miso etc) have received lots of attention as anticancer agents for prevention and treatment. The effects of the administration of probiotics to patients with colorectal cancer is the primary goal of this systematic review. The overall aim is to assess how the use of probiotics in patients with colorectal cancer helps in the management of colorectal cancer and its effect on the diversity of gut microbiota. The final systematic review will provide a comprehensive evidence base for the use and efficacy of probiotics in patient with colorectal cancer care. Methods and analysis The systematic review, will be conducted by extensively searching different databases such as PubMed, Web of Science, Scopus, Wiley and ProQuest to identify randomised controlled trials (with no time frame) which relate to the administration of probiotics to patients with colorectal cancer. The search strategy will include words like colorectal cancer, probiotics, Bifidobacterium, clinical trials etc. A systematic search of databases was performed between 17 and 20 January 2020. Two reviewers will independently review the studies using standardised data extraction form. After assessing the risk of bias, qualitative analysis will be used to synthesise the systematic review. Ethics and dissemination This is a protocol for a systematic review; therefore, it doesn't require any ethics approval. We intend to disseminate the protocol in a peer reviewed journal. © Author(s) (or their employer(s)) 2020.

Author Keywords

clinical trials; gastrointestinal tumours; microbiology

Index Keywords

probiotic agent; alcohol consumption, Article, Bifidobacterium, cancer chemotherapy, cancer radiotherapy, cancer surgery, clinical protocol, colorectal cancer, functional food, human, intestine flora, kombucha, lactic acid bacterium, nonhuman, outcome assessment, qualitative analysis, randomized controlled trial (topic), systematic review

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Publisher: BMJ Publishing Group

ISSN: 20446055 PubMed ID: 32771989 Language of Original Document: English Abbreviated Source Title: BMJ Open 2-s2.0-85089262111 Document Type: Article Publication Stage: Final Source: Scopus

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