

Alcohol Consumption and Cancer Risk: Understanding Possible Causal Mechanisms for Breast and Colorectal Cancers: Evidence ReportTechnology Assessment Number 197

Evidence Report/Technology Assessment
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Reviews

*This written publication is wonderful. It can be written in straightforward phrases instead of confusing. I discovered this pdf from my dad and i suggested this publication to learn.
(Jesse Tremblay)*

ALCOHOL CONSUMPTION AND CANCER RISK: UNDERSTANDING POSSIBLE CAUSAL MECHANISMS FOR BREAST AND COLORECTAL CANCERS: EVIDENCE REPORTTECHNOLOGY ASSESSMENT NUMBER 197



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Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 156 pages. Dimensions: 11.0in. x 8.5in. x 0.4in. The purpose of our assessment of alcohol and cancer induction is to explore the possible underlying causal mechanism(s) of the association between alcohol consumption and breast and colorectal cancers. Therefore, we developed four Key Questions that address the potential mechanism(s) by which alcohol might be involved in the development of breast and colorectal cancers. The primary evidence base to address these questions consisted of experimental studies of humans, animals, and cell lines where alcohol exposure could be controlled. In addition to this evidence base we also considered epidemiology studies where alcohol exposure was not controlled (including those in patients with or without cancer) and hypothesis-generating studies that examined potential metabolic pathways connecting alcohol to cancer risk. The following Key Questions will be addressed in this report: 1. What are the likely causal mechanisms by which alcohol contributes to the development of breast cancer? Which of the possible mechanisms (e.g., induction of P450 cytochromes and carcinogen metabolism, effects on blood hormone concentrations, effect of acetaldehyde or other alcohol metabolite on apoptosis and DNA repair, interactive effects on other nutritional factors, or others) are likely to be most important in breast cancer development? 2. For the most likely mechanisms of action involving alcohol and the development of breast cancer, how might other factors modify the effect of alcohol on breast cancer (for example, age, latency of effect, intensity, duration, and recency of exposure, presence of co-carcinogens, presence of threshold effect)? Do the causal mechanisms vary by cell type or other tumor characteristics? 3. What are the likely causal mechanisms by which alcohol contributes to the development of colorectal cancer? Which of the possible mechanisms (e.g., induction of P450 cytochromes...)

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