50 NATIONAL CANCER ACT 1971-2021

NCI Behavioral Research Program

William Klein, Ph.D. Associate Director <u>kleinwm@mail.nih.gov</u>

8th Joint CRAN Meeting May 12, 2021

Organizational Structure





BRP organizational structure

Behavioral Research Program

Basic Biobehavioral and Psychological Sciences

Health Behaviors

Health Communication and Informatics

Tobacco Control

The **Behavioral Research Program (BRP)** initiates, supports, and evaluates a comprehensive program of research including basic behavioral and psychological science as well as the development, testing, and dissemination of interventions in cancer control areas such as tobacco use, diet and energy balance, and sun protection.



https://cancercontrol.cancer.gov/brp/

Behavioral Research Program leadership team



William Klein Associate Director



Linda Nebeling Deputy Associate Director



Richard Moser Fellowship Training/ Research Methods Coordinator



Paul Han Senior Scientist



Paige Green Basic Biobehavioral and Psychological Sciences Branch



Susan Czajkowski Health Behaviors Research Branch



Robin Vanderpool Health Communication and Informatics Research Branch



Michele Bloch Tobacco Control Research Branch



View the complete BRP staff list with research areas and contact information at https://cancercontrol.cancer.gov/brpstaff

Selected research priorities: Behavioral targets

- Perceptual and cognitive issues in cancer detection and diagnosis
- Accelerated aging
- Decision making (e.g., palliative care)
- Health misinformation
- Dyadic processes
- Genetics of weight loss
- Racism and health



Selected research priorities: Behavioral targets

- Tobacco cessation and control
- Diet, weight, and physical activity
- Sun protection and exposure
- Virus exposure and vaccination
- Sleep hygiene
- Medication adherence
- Use of and reactions to genetic/genomic information
- Alcohol



Growing momentum to better address alcohol in cancer prevention and control

- U.K. and Australian leadership
- AICR Third Expert Report 2018 recommendation
- New epidemiological results and syntheses
- Media and popular interest



RECOMMENDATION Limit alcohol consumption

For cancer prevention, it's best not to drink alcohol

EXPL For cancer prevention, it's best not to drink alcohol

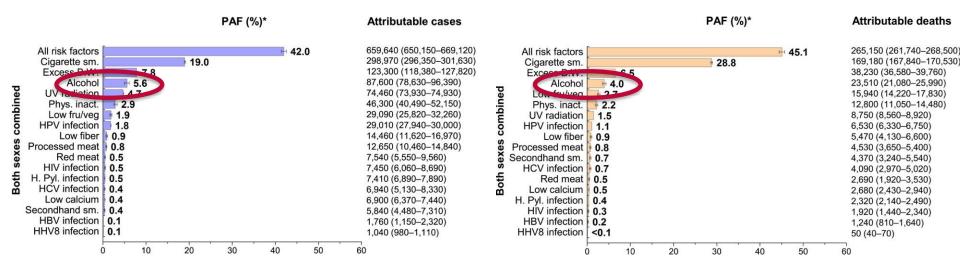


Cancer incidence and mortality related to alcohol use

- Globally, alcohol causes 5.5% of new cancer diagnoses and 5.8% of all cancer deaths
- In the U.S., 4.0% of cancer deaths attributable to alcohol
 - Absolute numbers: breast (5,250-7,570), head/neck (4,210-4,750), esophagus (2,180-2,780), colon/rectum (4,590-8,100), liver (2,540-5,420)



Contribution to the overall burden of disease: United States 2014





Alcohol and Cancer: A Statement of the American Society of Clinical Oncology. LoConte et al., 2018.

VOLUME 36 · NUMBER 1 · JANUARY 1, 2018

JOURNAL OF CLINICAL ONCOLOGY

ASCO SPECIAL ARTICLE

Alcohol and Cancer: A Statement of the American Society of Clinical Oncology

Noelle K. LoConte, Abenaa M. Brewster, Judith S. Kaur, Janette K. Merrill, and Anthony J. Alberg

Author affiliations and support information (if applicable) appear at the end of this article. Published at ico.org on November 7,

Reprint requests: American Society of

Alexandria, VA 22314: e-mail: cancerpolicy@asco.org.

e-mail: ns3@medicine.wisc.edu

0732-183X/18/3601w-83w/\$20.00

Clinical Oncology, 2318 Mill Rd, Suite 800.

Corresponding author: Noelle K. LoConte, MD, University of Wisconsin Madison,

600 Highland Ave. Madison, WI 53792-

© 2017 by American Society of Clinical

2017

Oncology

A B S T R A C T

Alcohol drinking is an established risk factor for several malignancies, and it is a potentially modifiable risk factor for cancer. The Cancer Prevention Committee of the American Society of Clinical Oncology (ASCO) believes that a proactive stance by the Society to minimize excessive exposure to alcohol has important implications for cancer prevention. In addition, the role of alcohol drinking on outcomes in patients with cancer is in its formative stages, and ASCO can play a key role by generating a research agenda. Also, ASCO could provide needed leadership in the cancer community on this issue. In the issuance of this statement, ASCO joins a growing number of international organizations by establishing a platform to support effective public health strategies in this area. The goals of this statement are to:

- Promote public education about the risks between alcohol abuse and certain types of cancer; · Support policy efforts to reduce the risk of cancer through evidence-based strategies that prevent excessive use of alcohol;
- Provide education to oncology providers about the influence of excessive alcohol use and cancer risks and treatment complications, including clarification of conflicting evidence; and
- · Identify areas of needed research regarding the relationship between alcohol use and cancer risk and outcomes

"Alcohol drinking is an established risk factor for several malignancies, and it is a potentially modifiable risk factor for cancer."

ciety of Clinical Oncology

with preventive interventions at both the policy and the individual levels. Here, we provide an overview of the evidence of the links between alcohol drinking and cancer risk and cancer outcomes. The areas of greatest need for future research are highlighted. On the basis of this evidence and guidelines adopted by other cancer-focused organizations. ASCO-endorsed strategies for the reduction of highrisk alcohol consumption are presented.

Beyond oncology, alcohol use and abuse together pose a significant public health problem. According to the Centers for Disease Control and Prevention, approximately 88,000 deaths were attributed to excessive alcohol use in the United States between 2006 and 2010.4 Approximately 3.3 million deaths worldwide result from the harmful use of alcohol each year.5 Population surveys demonstrate that 12% to 14% of adults have a current alcohol use disorder and that 29% have had such a disorder at some point in their lifetime.6,7 In addition to alcohol use disorder,

© 2017 by American Society of Clinical Oncology 83

Despite the evidence of a strong link between alcohol drinking and certain cancers, ASCO has not previously addressed the topic of alcohol and

cancer. In addition, alcohol drinking is a poten-DOI: https://doi.org/10.1200/JCO.2017. tially modifiable risk factor that can be targeted 78 1155

Downloaded from ascopubs.org by NIH LIBRARY on March 6, 2018 from 156.040.216.003 Copyright © 2018 American Society of Clinical Oncology. All rights reserved

Awareness in the U.S.

- American Society of Clinical Oncology (ASCO) National Cancer Opinion Survey
 - 2017 30% believe alcohol "increases a person's risk of getting cancer"

- American Institute for Cancer Research (AICR)
 - Assessed bi-annually since 2001
 - Continued low awareness relative to tobacco, obesity





Awareness of the link between alcohol consumption and cancer across the world: A review. Scheideler, Klein, 2018.



Jennifer K, Scheideler and William M.P. Klein

Abstract

Since 1988, the International Agency for Research on Cancer dom, Morocco, and Australia. Methodologic differences in assesshas classified alcohol as a Group 1 carcinogen, the high est level of ment obfuscate cross-country and cross-sample comparisons. In risk. Growing evidence suggests that alcohol increases the risk of general, people are more likely to endorse alcohol as a risk factor several types of cancer in duding breast, bowel, prostate, and liver, when presented with a list of possible risk factors than when asked and accounts for a significant proportion of preventable cancers. to list risk factors in an open-ended format. Attempts to increase Despite ample evidence of this relationship, public awareness is awareness have been limited and constitute a significant public less dear. Following PRISMA guidelines, we reviewed 32 studies health need. We provide potential strategies to increase awareexamining lay awareness of alcohol as a risk factor for cancerin 16 ness, such as alcohol bottle labeling and fostering patient/physicountries. Our results show that awareness appears to be low and cian discussions regarding the link. Cancer Epidemiol Biomarkers Prov. varies internationally; it is relatively higher in the United King- 1-9. ©2018 AACR.

"In general, although awareness appears to be increasing in many countries, at least half or more of the population does not consider alcohol to be a risk factor for cancer."

o relatively higher among those who consume Il amounts of alcohol (16, 17). Nelson and 013) (18) estimate that 31% to 51% of alconcer cases occurred among women who conms or less (approximately 1.5 drinks) per day. cohol, induding wine, beer, and spirits, increase . 20)

Cancer

Epidemio Biomarkers & Prevention

nergence of this evidence and the IARC's efforts he carcinogenic effects of alcohol, one might areness of this association would be widespread. to consumption. As a useful point of reference. 50 years, greater awareness of the cancer risks tob acco is thought to be a key factor in reducing and maintenance of tobacco use (21). It is less le appreciate the effects of alcohol on cancer risk: kely that greater aware ness might promote more sions about consumption. The extent to which risk for cancer is likely to motivate behavior ed to reduce that risk (22, 23); indeed, a recent observed a modest but significant (d = 0.23)erceptions on health behavior (24). If alcohol reciate the link between alcohol and can er, they at risk and endeavor to reduce their consump-

we investigated awareness of the link between neer across 16 countries in which awareness has We also consider moderators of such awareness ographics and mode of measurement. Finally, we ch and public health needs that emerge from this

ted a systematic review of peer-reviewed published articles according to standard Preferred Reporting

©2018 American Association for Cancer Research

NCI partnership and resources





HINTS routinely collects nationally representative data about the American public's use of cancer-related information

Surveillance of awareness/behavior items about alcohol included in 2003, 2017, 2019, and 2020 collections

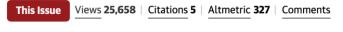
H4. Which of the following health conditions do you think can result from drinking too much alcohol?





Advancing the science and awareness of alcohol as a risk factor for cancer

- Panels and sessions at scientific conferences
- HINTS data analyses
- Natural experiment evaluation
- JAMA Viewpoint
- Alcohol and Cancer NOSI
- Alcohol and tobacco supplements and workgroup



Viewpoint

December 13, 2019

Alcohol and Cancer Risk

Clinical and Research Implications

William M. P. Klein, PhD¹; Paul B. Jacobsen, PhD²; Kathy J. Helzlsouer, MD, MHS³

» Author Affiliations

JAMA. 2020;323(1):23-24. doi:10.1001/jama.2019.19133



Alcohol as a Target for Cancer Prevention and Control: Research Challenges

Virtual webinar

December 18, 2020

Research challenges in alcohol and cancer across the cancer control continuum

- Improve measurement of alcohol behavior and better understand mechanisms linking alcohol and cancer
- More research on alcohol drinking and outcomes in cancer patients and survivors
- Research on communication and awareness related to alcohol and cancer is relatively sparse
- Need to fully inform policymakers



Selected funding opportunities for alcohol and cancer research

Title	Announcement #	Contact
Alcohol and Cancer Control	NOT-CA-20-034	Tanya Agurs-Collins collinsta@mail.nih.gov
Stimulating Innovations in Behavioral Intervention Research for Cancer Prevention and Control	PAR-19-309 (R21 Clinical Trial Optional)	Tanya Agurs-Collins collinsta@mail.nih.gov
Innovative Approaches to Studying Cancer Communication in the New Media Environment	PAR-19-348 (R01 Clinical Trial Optional) and PAR- 19-349 (R21 Clinical Trial Optional)	Kelly Blake <u>kelly.blake@nih.gov</u>
Public Policy Effects on Alcohol-, Cannabis-, Tobacco-, and Other Drug-Related Behaviors and Outcomes	NOT-AA-21-028	Carolyn Reyes-Guzman <u>reyesguzmancm@mail.nih.gov</u>
Modular R01s in Cancer Control and Population Science	PAR-21-190 (R01 Clinical Trial Optional)	Scott Rogers rogerssc@mail.nih.gov





NATIONAL CANCER INSTITUTE Division of Cancer Control & Population Sciences

SEARCH

Q

Behavioral Research Program

BRP Home Funding C

Funding Opportunities - Priority Areas -

Research Resources and Tools Program Branches
About BRP

https://cancercontrol.cancer.gov/brp

@NCIBehaviors







NOTHING WILL STOP US NATIONAL CANCER ACT