

CANCER PREVENTION RESEARCH

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RESEARCH BRIEF

727 Use of Nonsteroidal Anti-Inflammatory Drugs and Incidence of Melanoma in the United States Radiologic Technologists Study

Jim Z. Mai, Cari M. Kitahara, Michael R. Sargen, Mark P. Little, Bruce H. Alexander, Martha S. Linet, Margaret A. Tucker, and Elizabeth K. Cahoon
NSAIDs have been associated with both reduced and increased melanoma risk. However, few studies have examined the role of UVR or personal sun-sensitivity on these associations. Our findings strengthen the evidence that NSAID use is not associated with melanoma risk, even in sun-sensitive subgroups.

RESEARCH ARTICLES

733 Oral Cancer Risk Assessment for Different Types of Smokeless Tobacco Products Sold Worldwide: A Review of Reviews and Meta-analyses

Alpana K. Gupta, Mona Kanaan, Kamran Siddiqi, Dharendra N. Sinha, and Ravi Mehrotra

Most smokeless tobacco products sold worldwide, mainly shammah, toombak, gutkha, betel quid with tobacco, and dry snuff, are associated with a high risk of oral cancer. A high concentration of tobacco-specific nitrosamines in smokeless tobacco products is the major causative factor for oral cancer development.

747 Association Between Baseline C-Reactive Protein and the Risk of Lung Cancer: A Prospective Population-Based Cohort Study

Jian Yin, Gang Wang, Zheng Wu, Zhangyan Lyu, Kai Su, Fang Li, Xiaoshuang Feng, Lan-Wei Guo, Yuheng Chen, Shuanghua Xie, Hong Cui, Jiang Li, Jiansong Ren, Ju-Fang Shi, Shuohua Chen, Shouling Wu, Min Dai, Ni Li, and Jie He

In this prospective population-based cohort study, we found an association between higher plasma hsCRP and an increased risk of developing lung cancer, with stronger associations observed among nonobese participants.

755 Epigenome-Wide Study Identifies Epigenetic Outliers in Normal Mucosa of Patients with Colorectal Cancer

Jayashri Ghosh, Bryant M. Schultz, Joe Chan, Claudia Wultsch, Rajveer Singh, Imad Shureiqi, Stephanie Chow, Ahmet Doymaz, Sophia Varriano, Melissa Driscoll, Jennifer Muse, Frida E. Kleiman, Konstantinos Krampis, Jean-Pierre J. Issa, and Carmen Sapienza

Our study identifies an epigenetically distinct OMP group in the normal mucosa of patients with colorectal cancer that is characterized by a disrupted methylome, altered gene expression, and microbial dysbiosis. Identification of OMPs in healthy controls and patients with colorectal cancer will lead to prevention and better prognosis, respectively.

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767 **Development and Validation of a Noninvasive Risk Score Model for Liver Cirrhosis in At-Risk Alcohol Drinkers Without HBV/HCV Infection**

Yin Liu, Lan-Wei Guo, Hui-Fang Xu, Rui-Hua Kang, Li-Yang Zheng, Lu-Yao Zhang, Qiong Chen, Xi-Bin Sun, You-Lin Qiao, and Shao-Kai Zhang

The risk model we developed will not only be used as a practical tool to triage high risk groups for liver cirrhosis, but also have implications for public health measures, such as guidelines for the prevention of liver cancer, in at-risk alcohol drinkers without HBV/HCV infection.

777 **Vulvar Cancer Incidence in the United States and its Relationship to Human Papillomavirus Vaccinations, 2001-2018**

Abbey B. Berenson, Mihyun Chang, Ernest T. Hawk, Lois M. Ramondetta, and Thao Hoang

We found evidence that HPV vaccinations likely contributed to a decrease in the incidences of vulvar carcinoma *in situ* and invasive vulvar carcinoma among 20- to 44-year-old women between 2001 and 2018. Our data add to the growing evidence that HPV vaccinations are reducing the incidence of HPV-related anogenital cancers.

ABOUT THE COVER

Smokeless Tobacco (SLT) use is one of the most common risk factors for the development of oral cancer. The research article by Gupta and colleagues, starting on page 733, highlights that the diverse types of SLT products sold worldwide are associated with a high risk of oral cancer mainly due to the presence of high levels of tobacco-specific nitrosamines. The cover photomicrograph provided by Dr. Anurag Gupta, MD, shows features of moderately differentiated oral cavity carcinoma. Numerous epithelial islands and finger-like cords, exhibiting squamous differentiation, dyskeratosis, moderate cellular and nuclear pleomorphism with increased mitosis, can be seen invading the fibrocellular stroma (Hematoxylin and Eosin stain, 10× magnification).

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