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363  Effect of Sequential Rounds of Cervical Cancer Screening on Management of HPV-positive Women: A 15-year Population-based Cohort Study from China  
Xiao-Qian Xu, Remila Rezhake, Shang-Ying Hu, Feng Chen, Xun Zhang, Qin-Jing Pan, Wen-Hua Zhang, Jun-Fei Ma, You-Lin Qiao, Fang-Hui Zhao, and Margaret Cruickshank

This investigation concludes that switching from continuous to once-per-week erlotinib, given at one-quarter of the current therapeutic dose, will exert good efficacy with standard-of-care sulindac against adenomatous polyps in the colon and small intestine, with clinical relevance for patients with FAP before or after colectomy.
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373  Screening for Pancreatic Ductal Adenocarcinoma: Are We Asking the Impossible?  Katharine E. Caldwell, Alexander P. Conway, and Chet W. Hammill

For patients with pancreatic cancer, early stage detection offers the greatest survival benefit. However, the incidence of pancreatic cancer and associated mortality of pancreatic resections make development of a screening test a difficult, if not impossible, challenge.


Mexican American women suffer a disproportionate burden of chronic health conditions that increase cancer risk. Few investigations of the microbiome, a key determinant of host health, have been conducted among this group. Oral microbiota profiles may provide early and accessible cancer biomarker data on invasive bacteria or community disruptions.

393  Effects of Supplemental Calcium and Vitamin D on Circulating Biomarkers of Gut Barrier Function in Patients with Colon Adenoma: A Randomized Clinical Trial  Kelly Vermandere, Roberd M. Bostick, Hao Q. Tran, Andrew T. Gewirtz, Elizabeth L. Barry, Robin E. Rutherford, March E. Seabrook, and Veronika Fedirko

Calcium and vitamin D may be involved in regulating and maintaining the integrity of the intestinal mucosal barrier, the dysfunction of which results in exposure of the host to luminal bacteria, endotoxins, and antigens leading to potentially cancer-promoting endotoxemia and chronic colon inflammation. While our results suggest that daily supplementation with these chemopreventive agents does not modify circulating concentrations of gut permeability biomarkers, they support continued investigation of other potential modifiable factors, such as diet and excess adiposity, that could alter gut barrier function, to inform the development of treatable biomarkers of risk for colorectal neoplasms and effective colon cancer preventive strategies.

ABOUT THE COVER

Squamous cell lung cancer is a smoking-related malignancy characterized by the development of premalignant bronchial dysplastic lesions in the central airways. Reproducible preclinical models of squamous cell cancer have proven difficult to develop, and the most commonly employed model involves topical treatment with NTCU for up to 32 weeks. In a study beginning on page 307, Dwyer-Nield and colleagues report on an improved model where NTCU is combined with cigarette smoke exposure to induce more premalignant airway lesions in a shorter period of time (14 weeks). The cover shows H&E and cytokeratin 5-stained dysplastic airway lesions resulting from NTCU or NTCU + cigarette smoke exposure (40×). The lesions contain dysmorphic nuclei.