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The benefits vs harm reduction of “Alternative” vs “Dual” smoking of electronic cigarettes, and heated Tobacco products.**Ahmad Husari***University of California, USA*

The inhaled smoke from combustible cigarette smoke (CS) has numerous toxicants and carcinogens and is strongly associated with many cardiovascular and respiratory diseases and cancer. In response, Novel tobacco, and nicotine products, such as heated tobacco products (HTP), and electronic Cigarettes (ECIG) have been introduced into the global markets with a claim of reduced harm to the users when compared to conventional cigarettes. Influenced by such claims, we have witnessed conventional smokers adopting a “dual user” approach in which they attempt to partially substitute CS with ECIG or HTP, in an attempt to reduce harm and also to attempt at quitting smoking. Previously, we’ve showed that acute exposure to ECIG was less toxic on cultured A549 cells and the lungs in an in vivo animal model when compared to CS exposure only. The health effects of combining conventional CS and other products tobacco aerosols, however, are not well understood. In this presentation, will review the current research and our experiments on the effects of ECIG, HTP, the dual use of CS with either HTP or ECIG, as well as the dual use of non-combustible products.

Biography

Ahmad Husari MD, FCCP, D’ABSM is an associate professor at University of California at Riverside and a pulmonary and critical care consultant at Riverside Medical Clinics. Dr Husari graduated from the American University of Beirut and pursued additional training at prestigious universities in the United States (Johns Hopkins University, University of Maryland, and Stanford University). His basic science research and interests include the pathogenesis of lung injury and other organs injury secondary to the inhalation of harmful chemicals mainly hyperoxia and Tobacco smoke. Recently, Dr Husari documented the detrimental effects of combustible tobacco consumption, electronic cigarette, and heated tobacco products (HTP). His lecture will explore the role of electronic cigarettes, HTP and “alternative” Smoking as compared to traditional tobacco exposure.