Themed Issue on Electronic Nicotine Delivery Devices

Edited by: Karl Fagerstrom
Fagerstrom Consulting
Sweden

Jennifer Unger
University of Southern California
United States of America

Jean-Francois Etter
Institute of Global Health, Faculty of Medicine, University of Geneva
Switzerland

Contents

Editorial
E-Cigarettes: A Disruptive Technology That Revolutionizes Our Field?
Karl Fagerstrom, Jean-Francois Etter, Jennifer B. Unger
125

Original Investigations
A Longitudinal Study of Electronic Cigarette Use Among a Population-Based Sample of Adult Smokers: Association With Smoking Cessation and Motivation to Quit
Lois Biener, J. Lee Hargraves
127

Nicotine Concentrations in Electronic Cigarette Refill and Do-It-Yourself Fluids
Barbara Davis, Michael Dang, Jisoo Kim, Prue Talbot
134

Preliminary Results of an Examination of Electronic Cigarette User Puff Topography: The Effect of a Mouthpiece-Based Topography Measurement Device on Plasma Nicotine and Subjective Effects
Tory R. Spindle, Alison B. Breland, Nareg V. Karaoghlanian, Alan L. Shihadeh, Thomas Eissenberg
142

Effects of User Puff Topography, Device Voltage, and Liquid Nicotine Concentration on Electronic Cigarette Nicotine Yield: Measurements and Model Predictions
Soha Talih, Zainab Balhas, Thomas Eissenberg, Rola Salman, Nareg Karaoghlanian, Ahmad El Hellani, Rima Baalbaki, Najat Saliba, Alan Shihadeh
150

Commentary
Electronic Cigarette Effectiveness and Abuse Liability: Predicting and Regulating Nicotine Flux
Alan Shihadeh, Thomas Eissenberg
158

Letters
Risks of Attempting to Regulate Nicotine Flux in Electronic Cigarettes
Konstantinos E. Farsalinos, Vassilis Voudris, Jacques Le Houezec
163

Nicotine Flux: A Potentially Important Tool For Regulating Electronic Cigarettes
Thomas Eissenberg, Alan Shihadeh
165

Original Investigations
Evaluation of Electronic Cigarette Liquids and Aerosol for the Presence of Selected Inhalation Toxins
Konstantinos E. Farsalinos, Kurt A. Kistler, Gene Gillman, Vassilis Voudris
168
Nicotine Intake From Electronic Cigarettes on Initial Use and After 4 Weeks of Regular Use

Peter Hajek, Maciej L. Goniewicz, Anna Phillips, Katie Myers Smith, Oliver West, Hayden McRobbie

Effects of Duration of Electronic Cigarette Use

William V. Lechner, Alayna P. Tackett, DeMond M. Grant, Noor N. Tahirkheli, Leslie M. Driskill, Theodore L. Wagener

Development of a Questionnaire for Assessing Dependence on Electronic Cigarettes Among a Large Sample of Ex-Smoking E-Cigarette Users

Jonathan Foulds, Susan Veldheer, Jessica Yingst, Shari Hrabovsky, Stephen J. Wilson, Travis T. Nichols, Thomas Eissenberg

Expectancies for Cigarettes, E-Cigarettes, and Nicotine Replacement Therapies Among E-cigarette Users (aka Vapers)

Paul T. Harrell, Nicole S. Marquinez, John B. Correa, Lauren R. Meltzer, Marina Unrod, Steven K. Sutton, Vani N. Simmons, Thomas H. Brandon

Disposable Electronic Cigarettes and Electronic Hookahs: Evaluation of Performance

Monique Williams, Sanjay Ghai, Prue Talbot

Electronic Cigarette Exposures Reported to Texas Poison Centers

Jhonny E. Ordonez, Kurt C. Kleinschmidt, Mathias B. Forrester

Association Between Electronic Cigarette Use and Openness to Cigarette Smoking Among US Young Adults

Blair N. Coleman, Benjamin J. Apelberg, Bridget K. Ambrose, Kerry M. Green, Conrad J. Choiniere, Rebecca Bunnell, Brian A. King

Trends in Awareness and Use of Electronic Cigarettes Among US Adults, 2010–2013

Brian A. King, Roshni Patel, Kimberly H. Nguyen, Shanta R. Dube


Rebecca E. Bunnell, Israel T. Agaku, René A. Arrazola, Benjamin J. Apelberg, Ralph S. Caraballo, Catherine G. Corey, Blair N. Coleman, Shanta R. Dube, Brian A. King


Nancy A. Rigotti, Kathleen F. Harrington, Kimber Richter, Jeffrey L. Fellows, Scott E. Sherman, Ellie Grossman, Yuchiao Chang, Hilary A. Tindle, Thomas Ylioja

Cigarette Users’ Interest in Using or Switching to Electronic Nicotine Delivery Systems or Smokeless Tobacco for Harm Reduction, Cessation, or Novelty: A Cross-Sectional Survey of US Adults

Carla J. Berg, Regine Haardoerfer, Cam Escoffery, Pinpin Zheng, Michelle Kegler

Brief Report

Electronic Cigarettes Are a Source of Thirdhand Exposure to Nicotine

Maciej L. Goniewicz, Lily Lee

Review

NIH Electronic Cigarette Workshop: Developing a Research Agenda