

“Cardiovascular Effects of Multipollutant Exposure: Mechanisms and Interactions”

Presented by Michael T. Kleinman, Ph.D.
University of California, Irvine

CARB Research Seminar for Contract 13-309

10:00 am, June 1, 2018 – Sierra Hearing Room

Contract managers:

- Lori Miyasato (lori.miyasato@arb.ca.gov)
- Pat Wong (pat.wong@arb.ca.gov)

10:00 am



Announcements

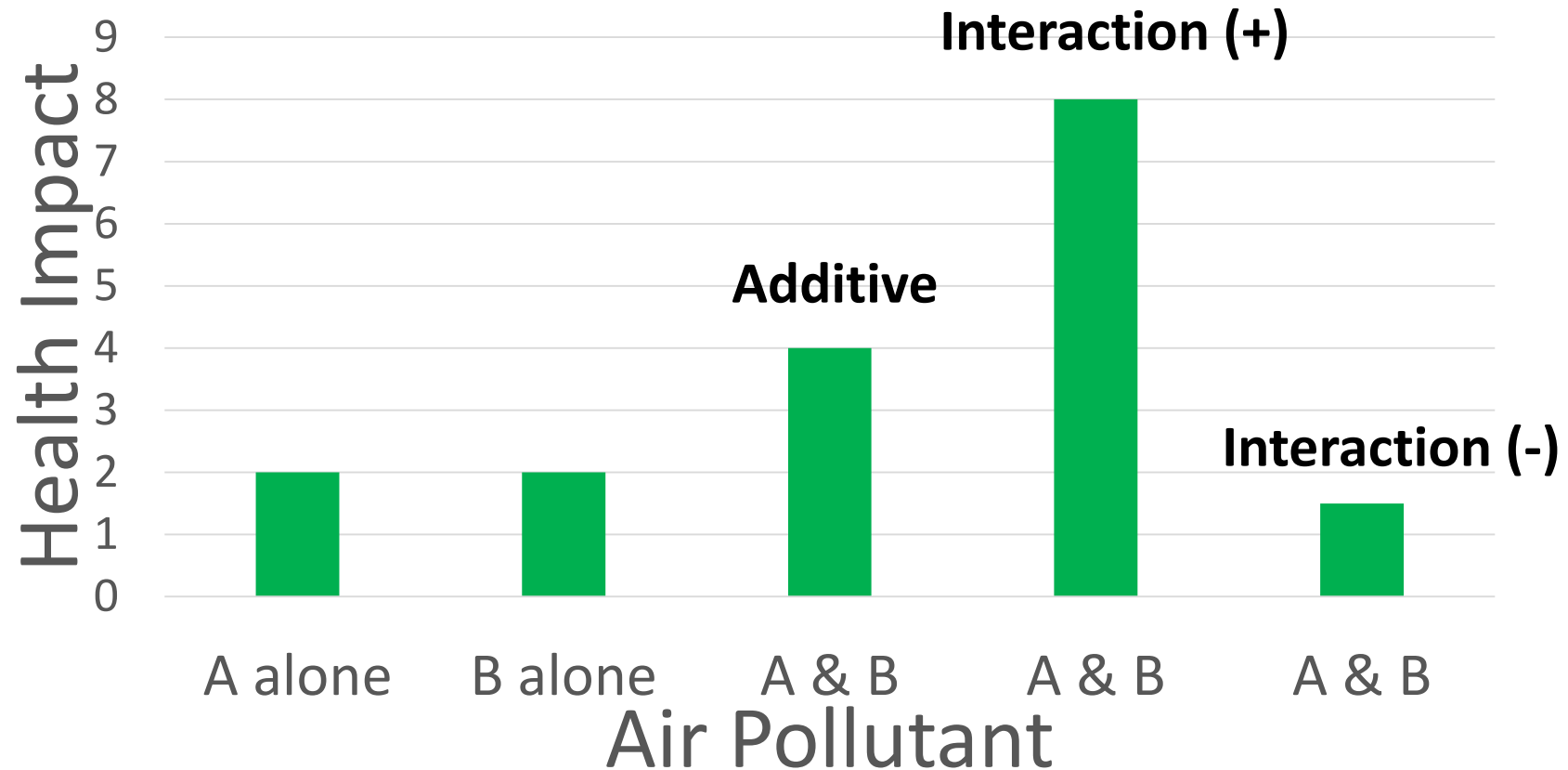
- For our online audience: questions for the speaker can be sent to sierrarm@calepa.ca.gov
- For our in-person audience: “housekeeping” items
- Additional information about the speaker, as well as slides and other materials, can be found at:

<https://www.arb.ca.gov/research/seminars/kleinman4/kleinman.htm>

Background

- Fine particulate matter (PM_{2.5}, $\leq 2.5 \mu\text{m}$) and ozone (O₃) are common air pollutants
- Both linked to health problems, including heart and lung disease
- However, air pollutants do not occur in isolation
 - Little known about combined PM_{2.5} and O₃ impacts

Possible Health Impacts - Simplified



Today's Speaker – Dr. Michael T. Kleinman

- Professor in Environmental Health Sciences, University of California, Irvine
- Co-Director of Air Pollution Health Effects Laboratory in Department of Medicine at UC Irvine
- Chairman of the Scientific Review Panel on Toxic Air Contaminants
- Over 100 peer-reviewed publications related to air pollutants & their effects
- Current studies: role of organic/inorganic PM constituents and ozone in heart disease