

Wildfire and Health Impacts

Eyal Oren, Ph.D., M.S.

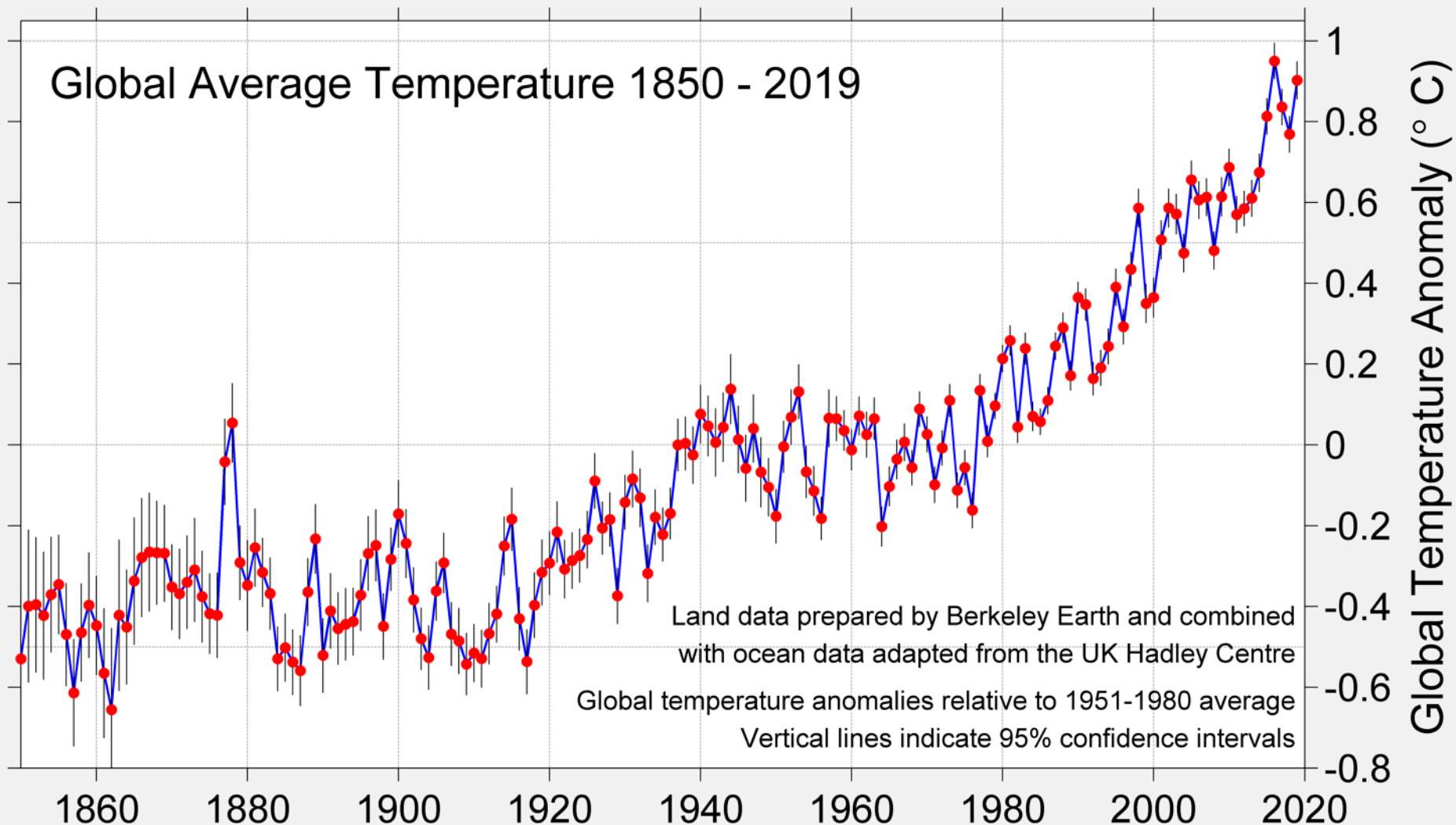
Director, School of Public Health

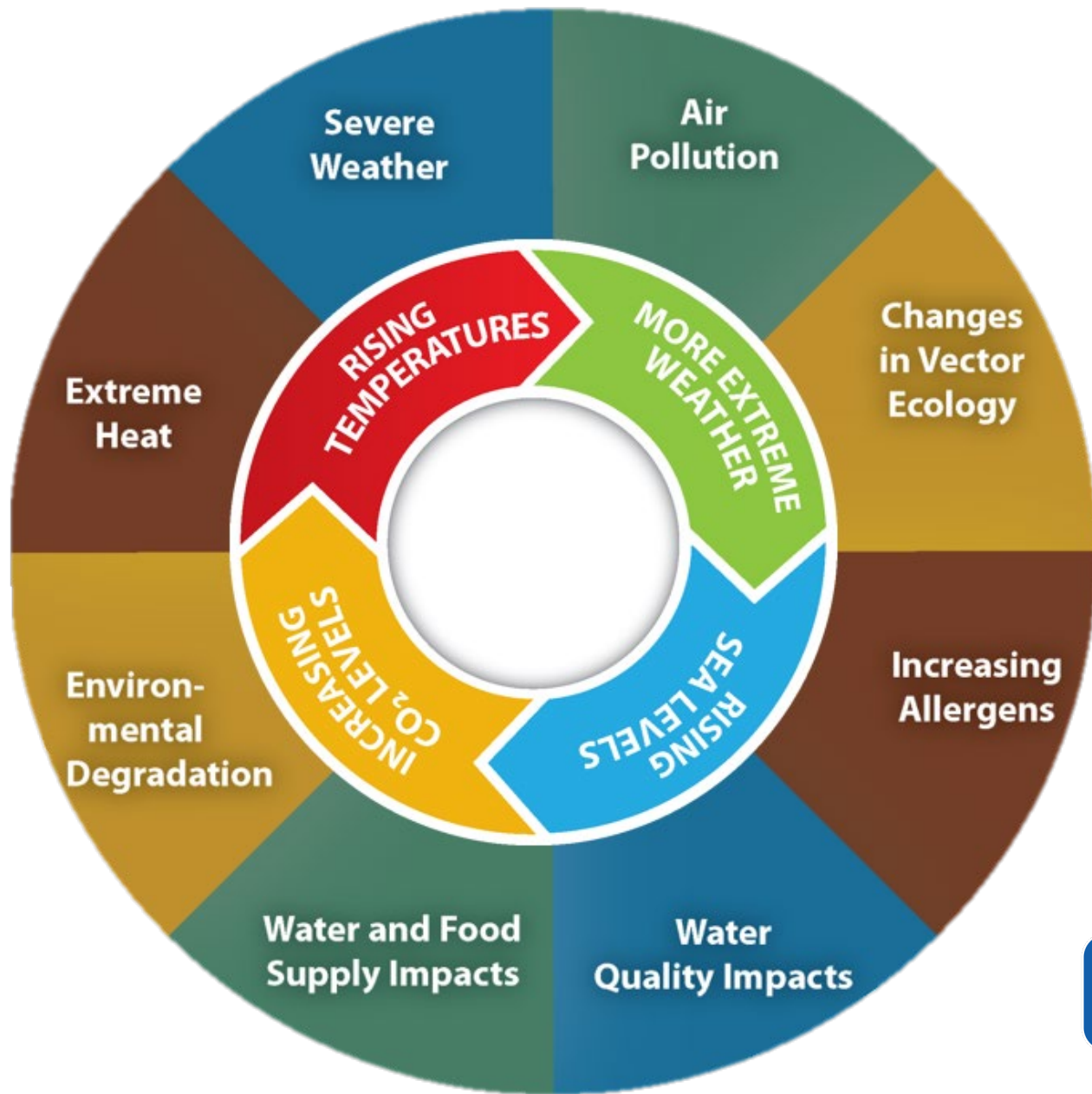
Professor, Epidemiology & Biostatistics

Regional convenings on climate & health



What do we mean by Climate Change?

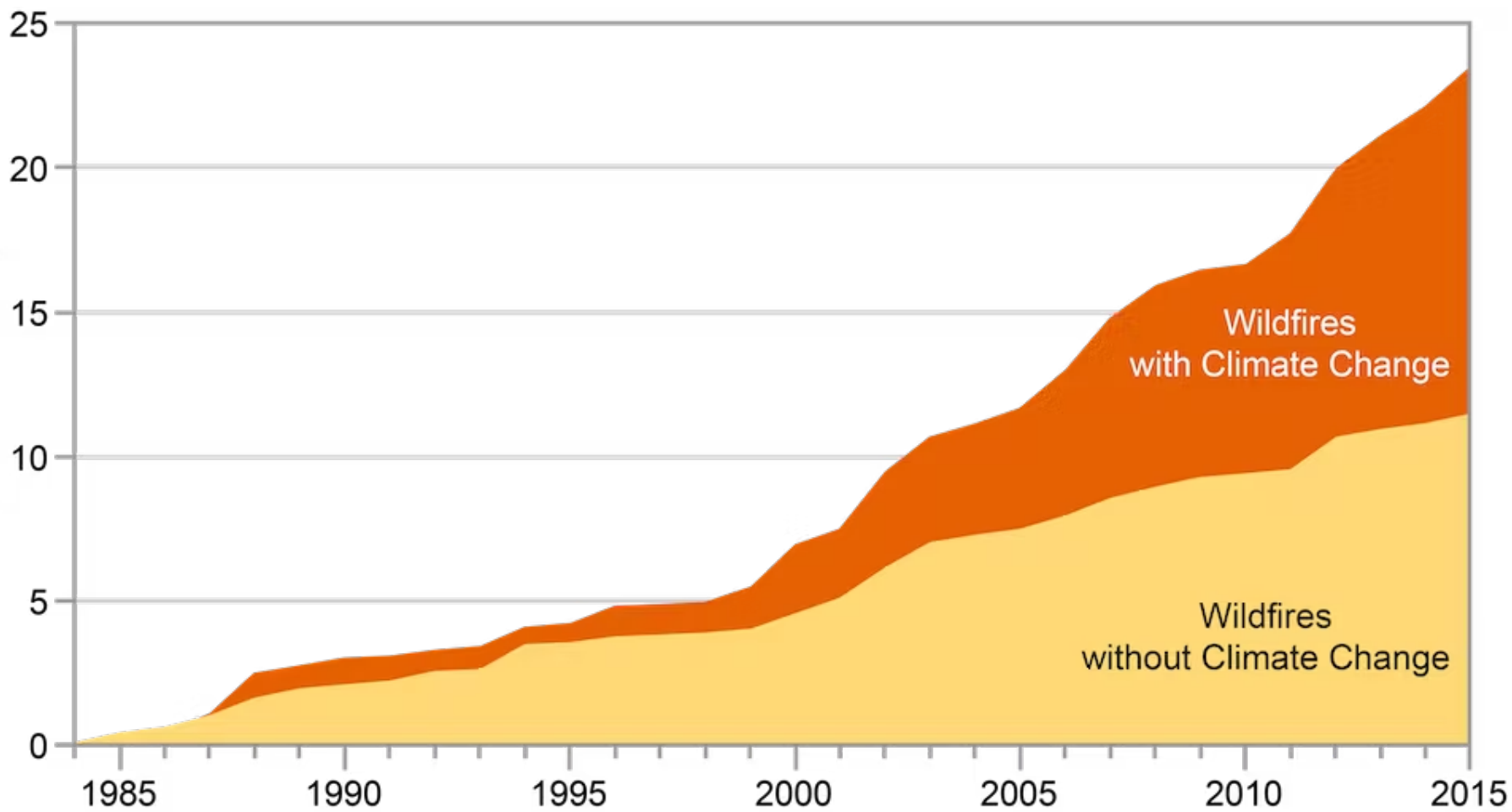


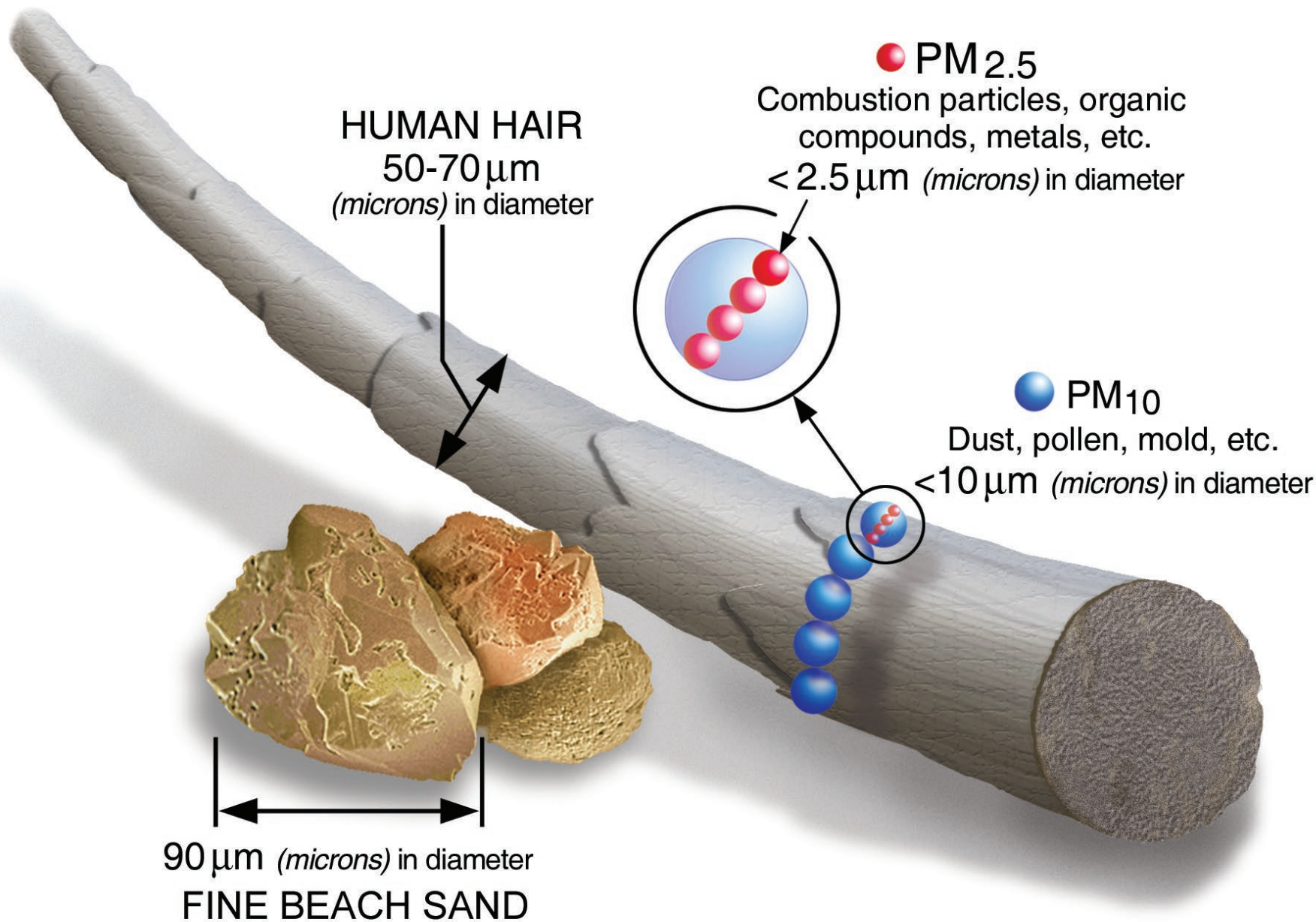




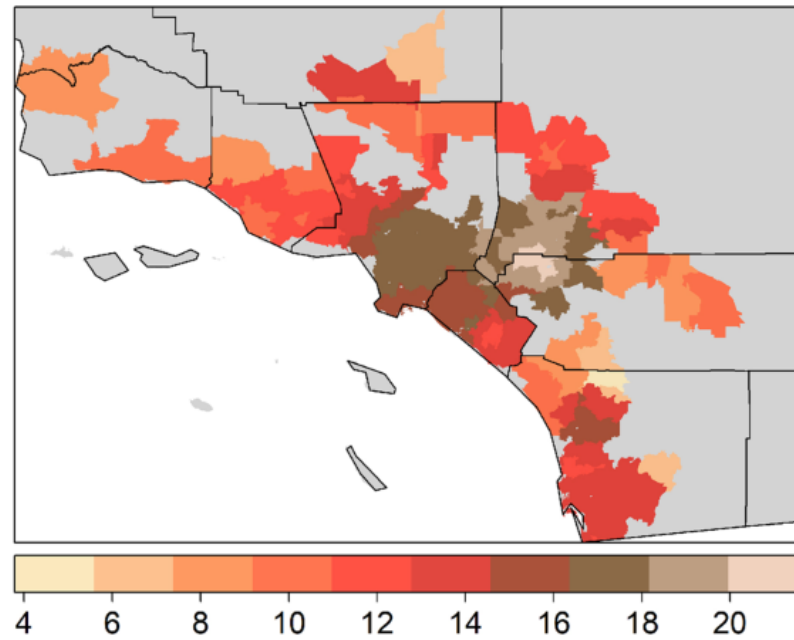
EARNIE GRAFTON |
SAN DIEGO UNION-TRIBUNE

Cumulative Forest Area Burned
(millions of acres)

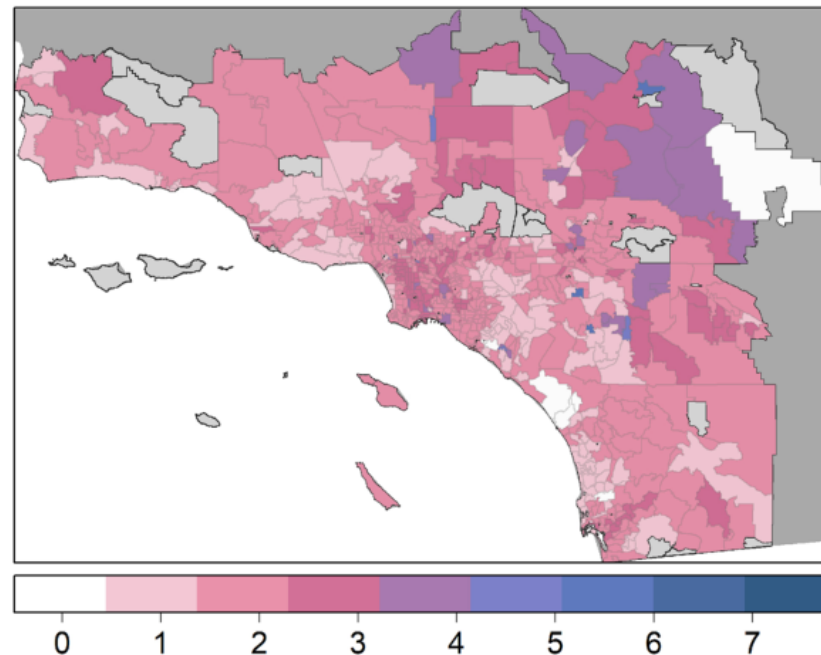




(a) Mean PM_{2.5} ($\mu\text{g m}^{-3}$) - 1999-2012



(b) Mean Rate of Respiratory Admissions - 1999-2012





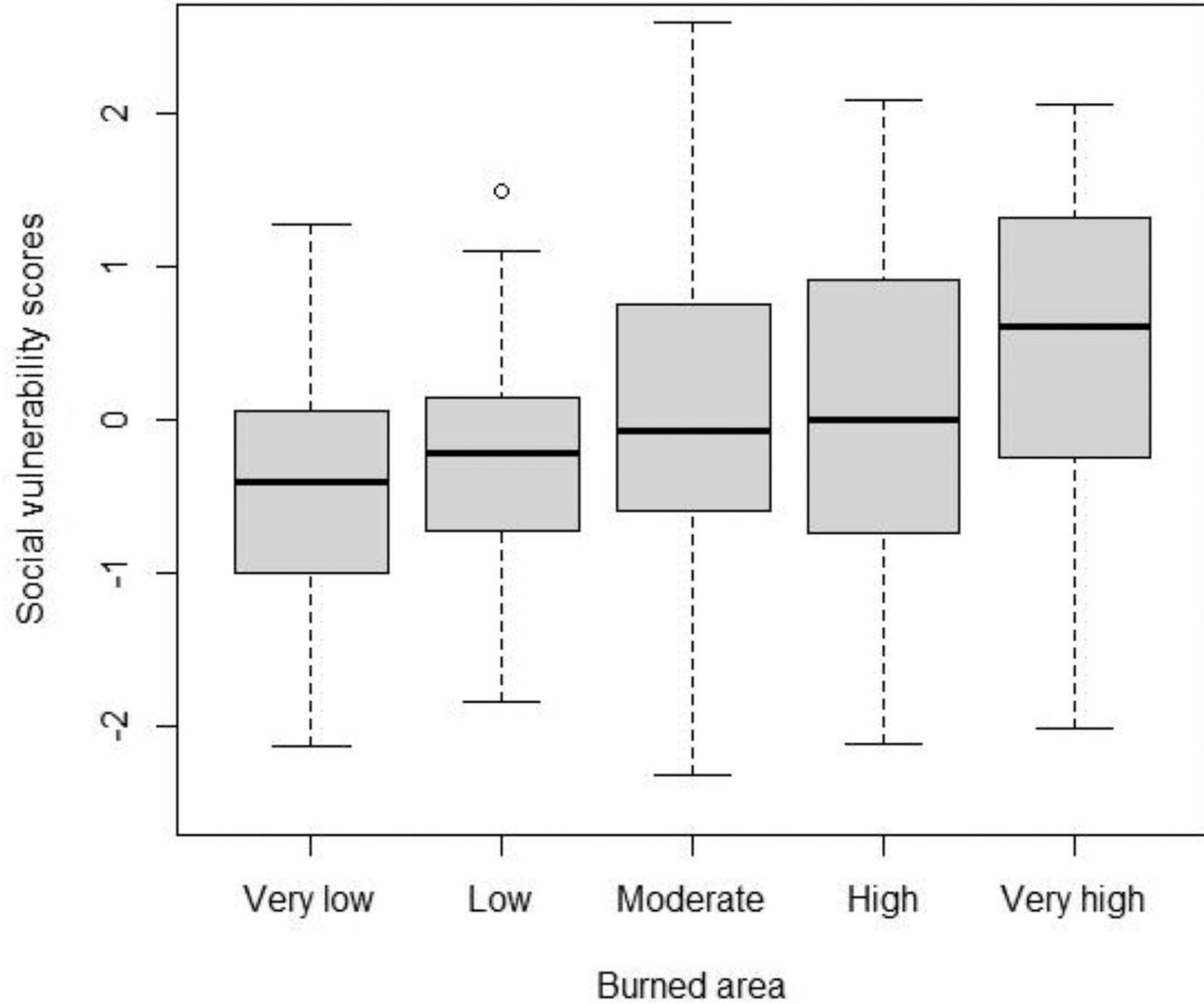
Davies IP, Haugo RD, Robertson JC, Levin PS (2018) The unequal vulnerability of communities of color to wildfire. PLOS ONE 13(11): e0205825. <https://doi.org/10.1371/journal.pone.0205825>
<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0205825>

Wildfire smoke disproportionately harms poorer communities

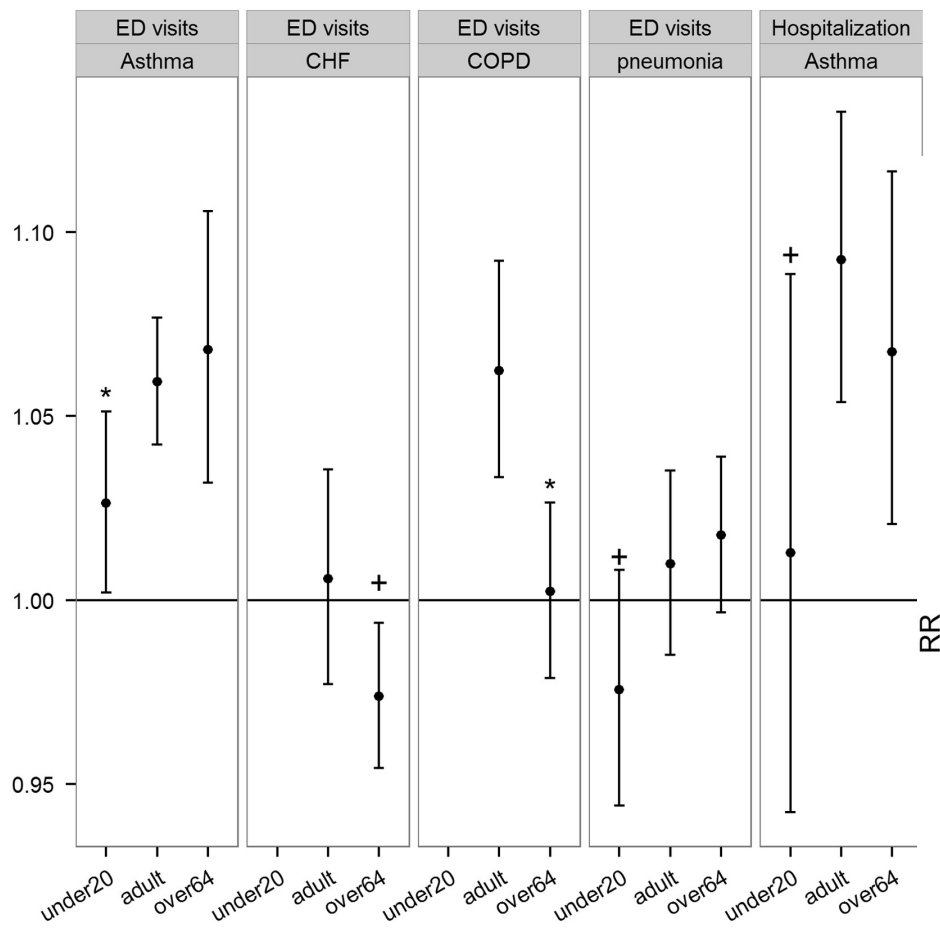
In counties with the highest **wildfire risk** there are more than:



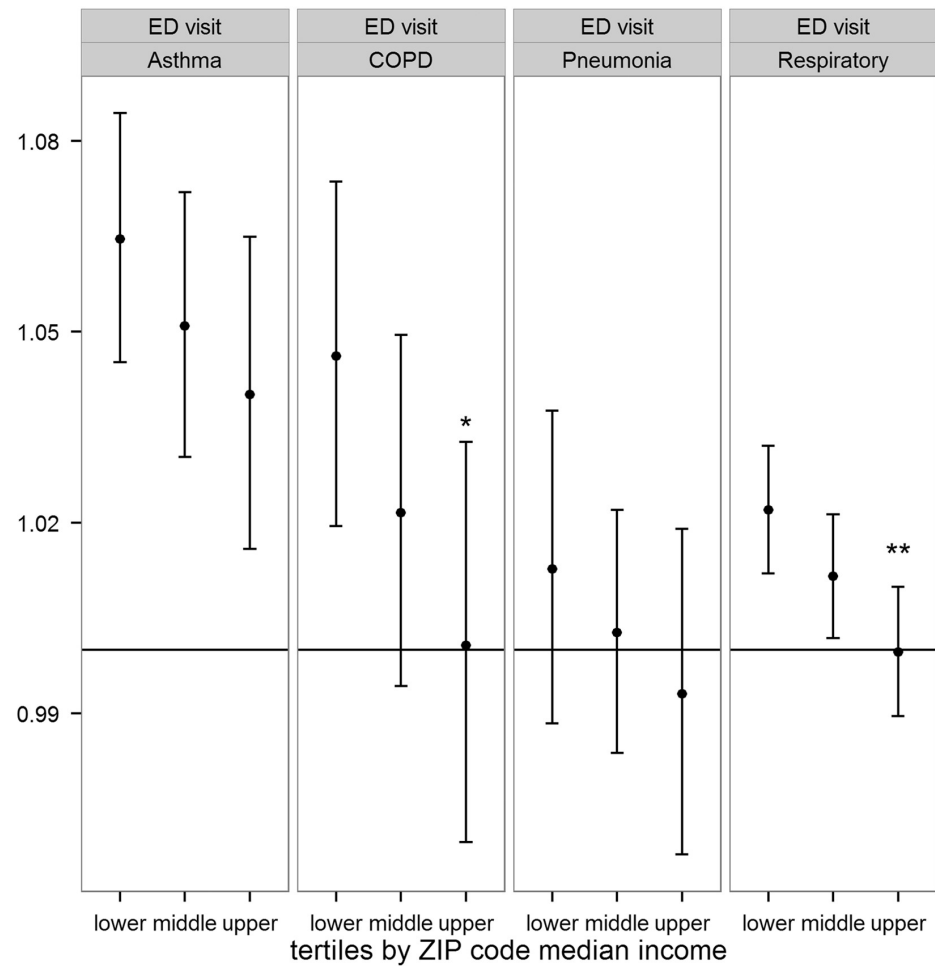
Data sources: USDA Forest Service, Wildfire Risk to Communities; US Census Bureau, American Community Survey. "Highest" wildfire risk includes "high" and "very high" categories (>90th percentile)

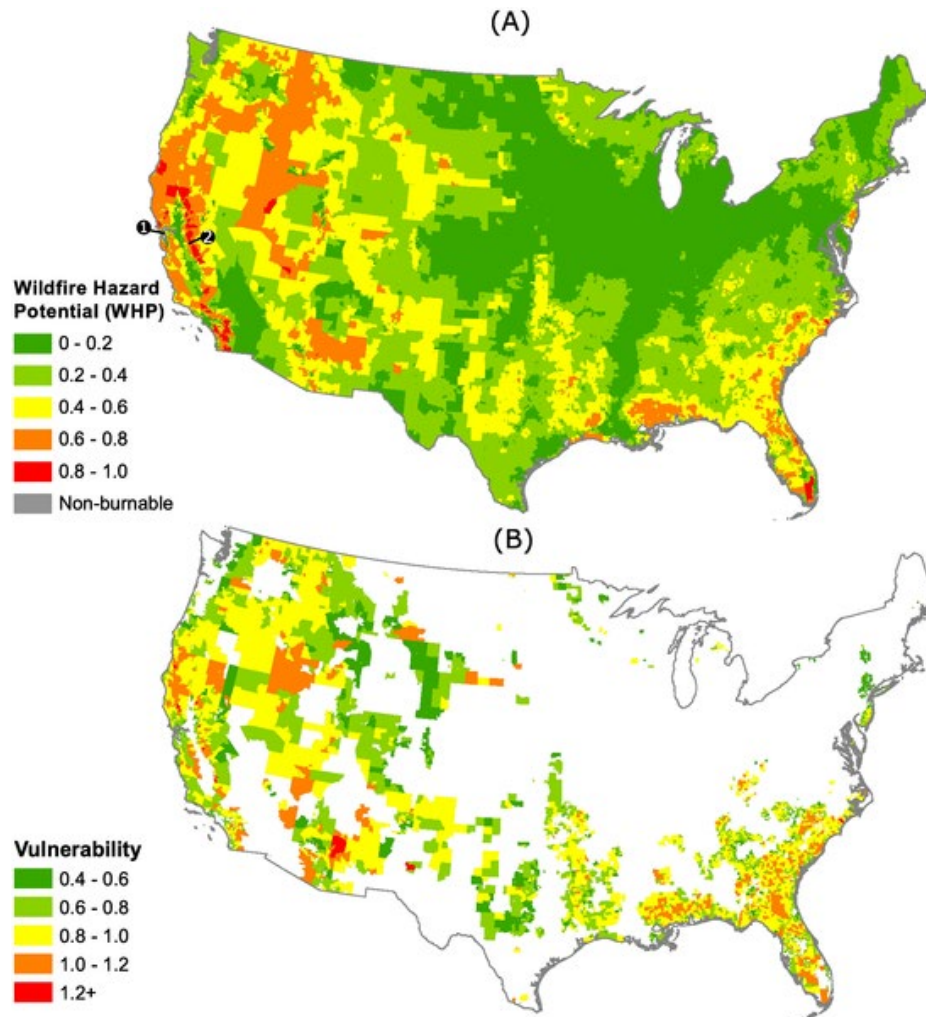


RR

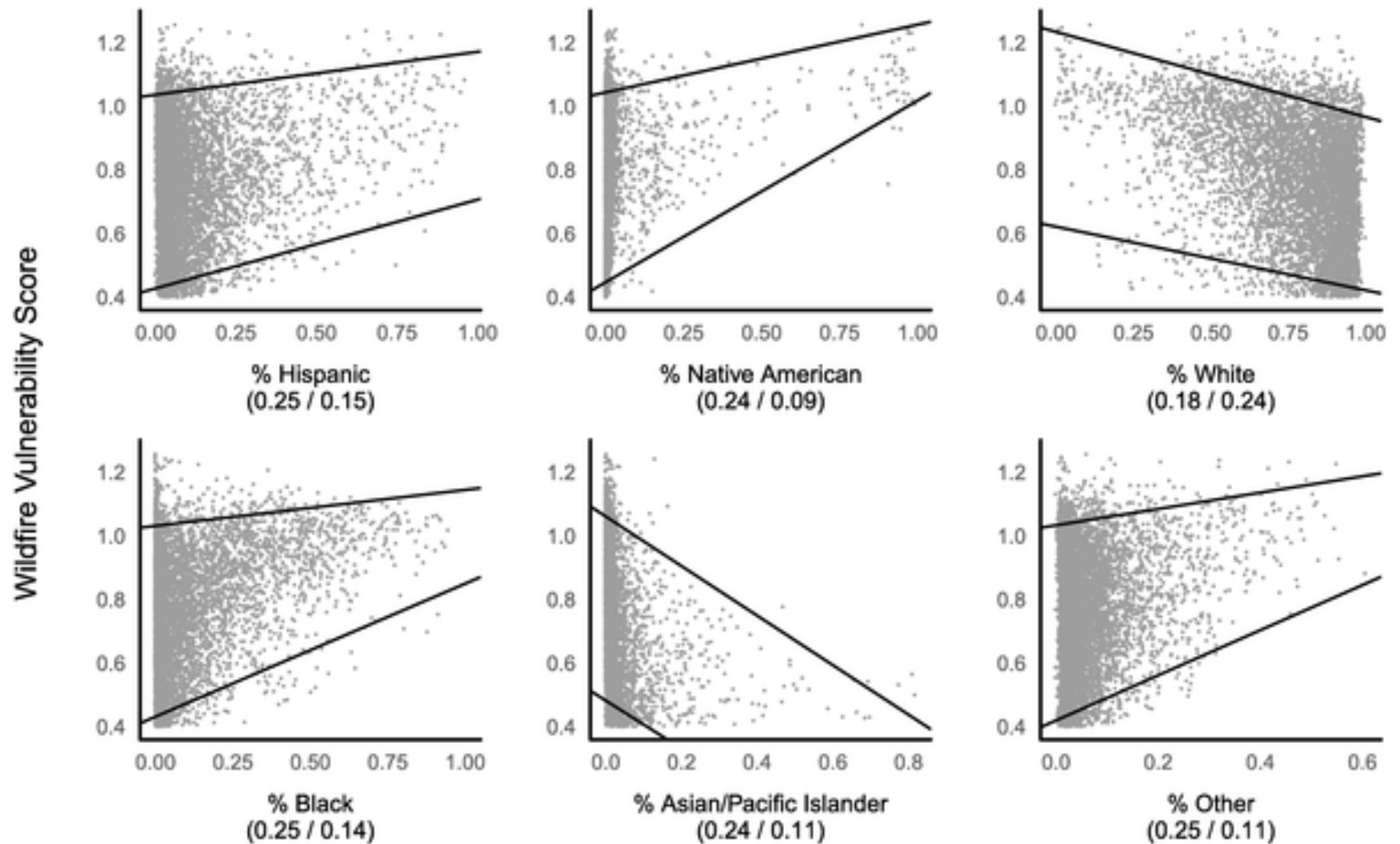


RR



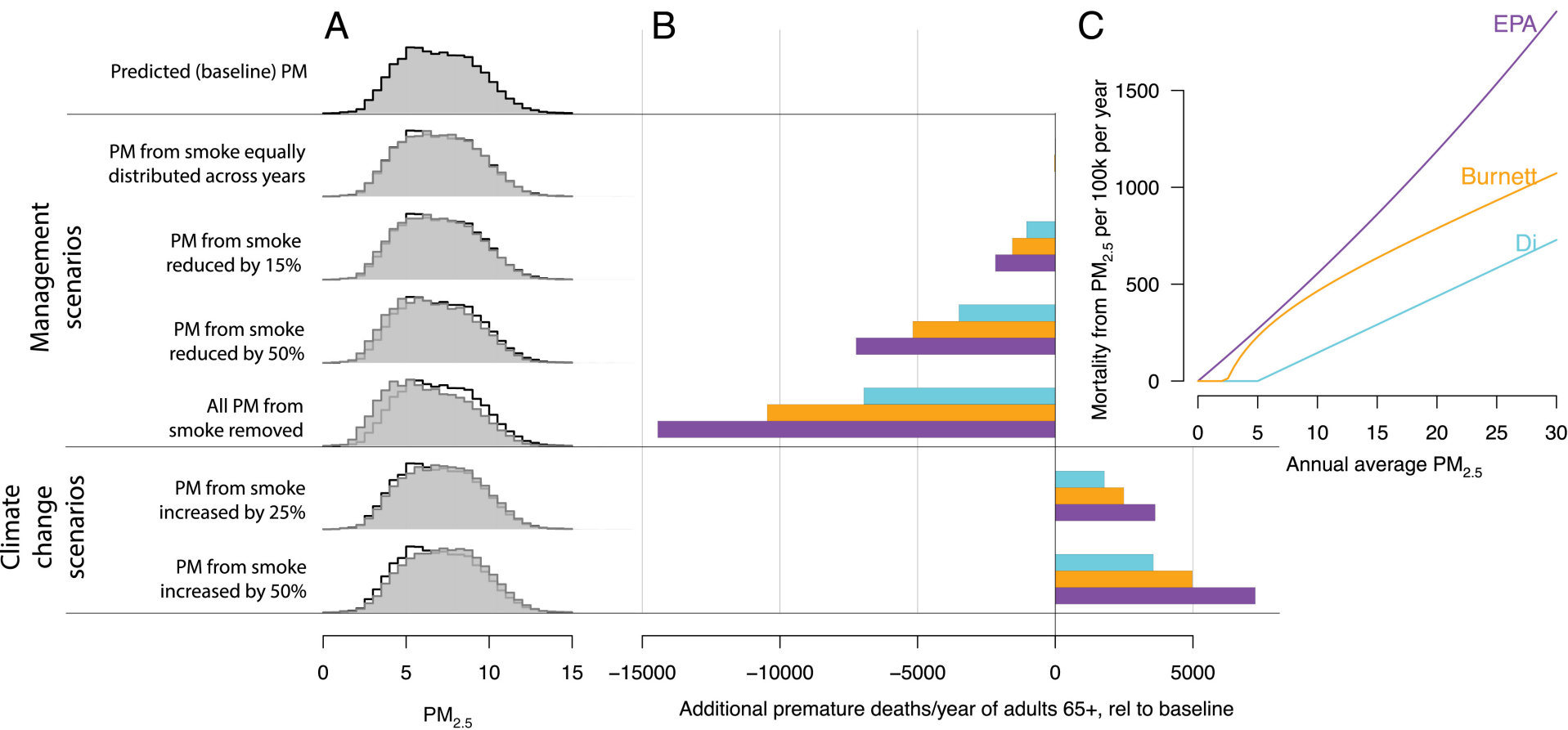


Davies IP, Haugo RD, Robertson JC, Levin PS (2018) The unequal vulnerability of communities of color to wildfire. PLOS ONE 13(11): e0205825. <https://doi.org/10.1371/journal.pone.0205825>
<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0205825>



Davies IP, Haugo RD, Robertson JC, Levin PS (2018) The unequal vulnerability of communities of color to wildfire. PLOS ONE 13(11): e0205825. <https://doi.org/10.1371/journal.pone.0205825>
<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0205825>

Management Scenarios



SPECIAL REPORT GLOBAL WARMING

TIME

BE
WORRIED.
BE **VERY**
WORRIED.

Climate change isn't some vague future problem—it's already damaging the planet at an alarming pace. Here's how it affects you, your kids and their kids as well.

EARTH AT THE **TIPPING POINT**
HOW IT THREATENS YOUR **HEALTH**
HOW **CHINA & INDIA** CAN HELP
SAVE THE WORLD—OR DESTROY IT
THE CLIMATE **CRUSADERS**

