

CRDCN Research Policy Snapshot Volume 2 - 2023

Supplementary Information

Mohamed Dardir, Jeffrey Wilson and Umberto Berardi. "Heat and air quality related cause-based elderly mortalities and emergency visits." CRDCN research-policy snapshots. Volume 2, July 2023

Heat and Air Quality related Cause-based Elderly Mortalities and Emergency Visits **METHOD** A novel combined multi-**Fotal record Mortalities** dimensional hierarchical and k-means clustering approach to assessing the **Ambient Emergency Department Visits** impact of the short-term temperature variations of environmental Relative humidity variables on community health responses. Extreme heat conditions and poor Moderate environmental variables air quality levels Ground-level Short-term daily total mortalities Short-term daily elderly causeozone and emergency department visits based mortalities and emergency Fine particulate visits matter Respiratory and cardiovascular patients, especially elderly people, are at greater risk of poor environmental conditions, while the elderly sector is more vulnerable to environmental changes Columbia University Mailman School of Public Health



