Dear Editor,

We are excited to submit “Assessing potential sources of bias in measuring power outage exposure with simulations” for publication to *Environmental Epidemiology*.

**What this study adds:** Research on risks of power outages to health has been constrained by lack of exposure data. Since 2020, new national power outage exposure data has become available. However, these new datasets are missing large amounts of data. We conducted a simulation study assessing how missing data could bias results of an epidemiologic study of power outage and health, testing if the new power outage data were usable. We found missing data can introduce substantial bias but that it is possible to estimate effects with low bias from available datasets by restricting use to locations missing less person-time outage data.

The paper and data have not previously been published, and no similar papers are in press or under review. We, the authors, have no conflicts of interest. We are working on an epidemiologic study of power outage and hospitalizations among older adults which directly uses the results of this paper. Other than this study underway, there are no other closely related papers.

Sincerely,

Heather McBrien

Joan A. Casey

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