

**Supplemental content for: Power outages and cardiovascular and respiratory hospitalizations among US older adults**

**Supplemental Table 1:** Distribution of power outage exposure by potential confounders for main analysis of county-level 8+ hour power outage exposure and CVD and respiratory hospitalizations in US 2018 Fee-For-Service Medicare beneficiaries.

**Proportion of county-days with 8+ hour power outage affecting  $\geq 1\%$  of county customers by potential confounder quartiles**

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**Wind speed**

Quartile 1	0.009
Quartile 2	0.009
Quartile 3	0.010
Quartile 4	0.022

**Precipitation**

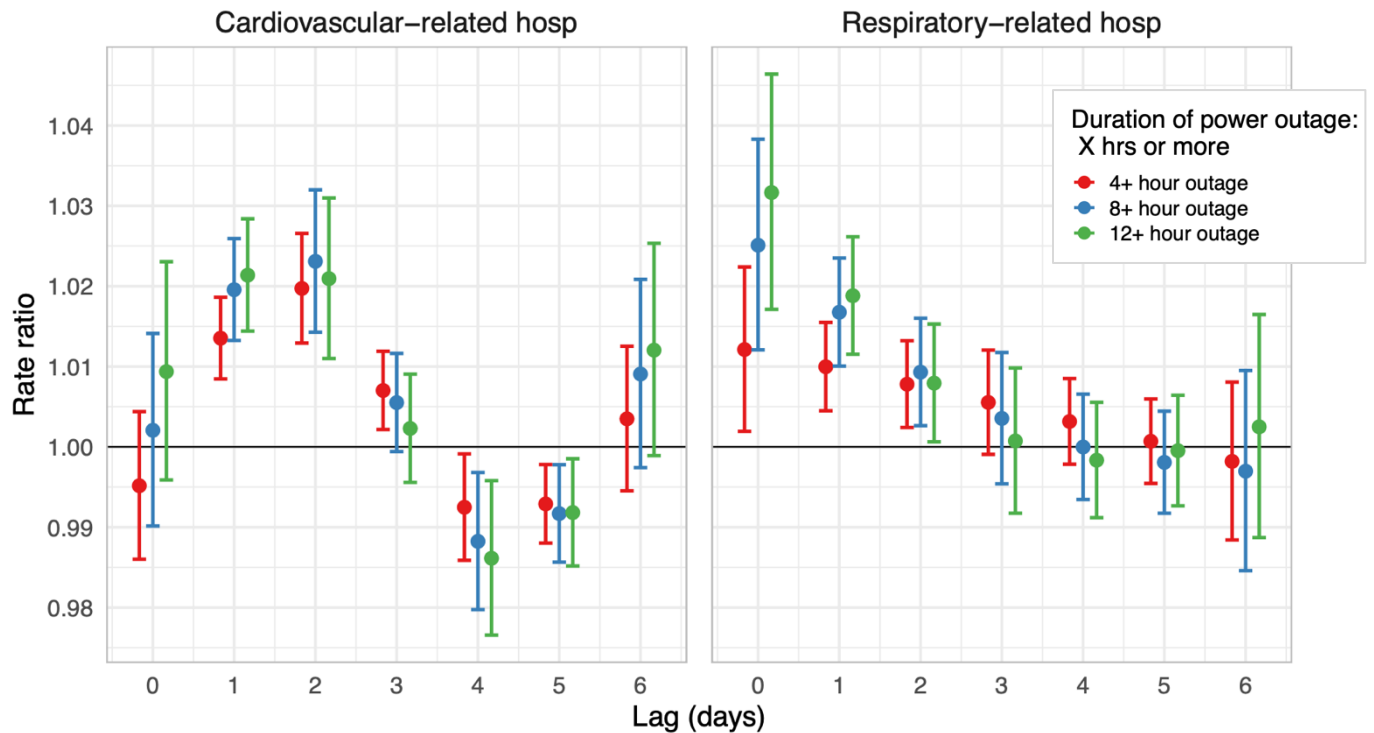
Quartile 1	0.013
Quartile 2	0.014
Quartile 3	0.012
Quartile 4	0.011

**Daily maximum temperature**

Quartile 1	0.022
Quartile 2	0.012
Quartile 3	0.009
Quartile 4	0.008

**Supplemental Table 2:** Rate ratios and 95% confidence intervals for the association between county-level 8+ hour power outage exposure and CVD and respiratory hospitalizations in US 2018 Fee-For-Service Medicare beneficiaries for outages affecting  $\geq 1\%$ ,  $\geq 3\%$ , and  $\geq 5\%$  of county electrical customers. Estimates are from conditional Poisson regression models adjusted for daily wind speed, temperature, and precipitation.  
CVD, cardiovascular disease; Resp, respiratory disease.

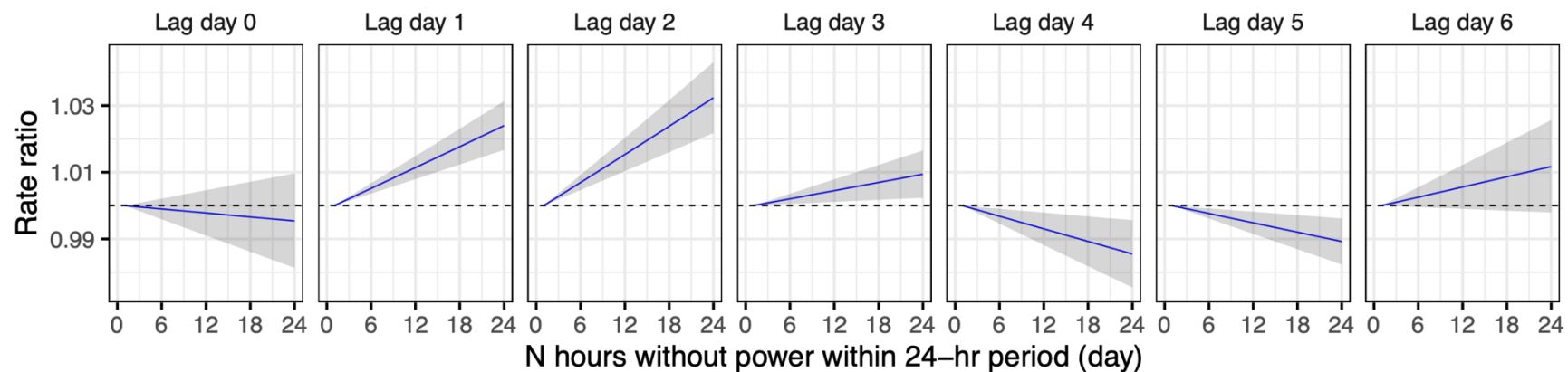
Power outage cut point	Outcome type	Lag day 0	Lag day 1	Lag day 2	Lag day 3	Lag day 4	Lag day 5	Lag day 6
1%	CVD	1.002, [0.99, 1.014]	1.020, [1.013, 1.026]	1.023, [1.014, 1.032]	1.006, [0.999, 1.012]	0.988, [0.98, 0.997]	0.992, [0.986, 0.998]	1.009, [0.997, 1.021]
3%	CVD	1.016, [0.999, 1.032]	1.027, [1.018, 1.036]	1.027, [1.015, 1.039]	1.009, [1.001, 1.018]	0.993, [0.981, 1.005]	0.995, [0.987, 1.003]	1.009, [0.993, 1.025]
5%	CVD	1.025, [1.005, 1.045]	1.031, [1.021, 1.042]	1.029, [1.014, 1.044]	1.014, [1.004, 1.024]	1.000, [0.986, 1.014]	1.000, [0.991, 1.01]	1.010, [0.991, 1.03]
1%	Resp	1.025, [1.012, 1.038]	1.017, [1.01, 1.024]	1.009, [1.003, 1.016]	1.004, [0.995, 1.012]	1.000, [0.993, 1.007]	0.998, [0.992, 1.004]	0.997, [0.985, 1.01]
3%	Resp	1.052, [1.034, 1.071]	1.031, [1.022, 1.04]	1.013, [1.004, 1.022]	1.001, [0.99, 1.012]	0.997, [0.988, 1.006]	0.999, [0.99, 1.007]	1.004, [0.987, 1.021]
5%	Resp	1.067, [1.046, 1.089]	1.039, [1.029, 1.05]	1.016, [1.005, 1.027]	1.001, [0.988, 1.014]	0.997, [0.987, 1.008]	1.001, [0.991, 1.011]	1.009, [0.988, 1.029]



**Supplemental Figure 1:** Rate ratios and 95% confidence intervals for the association between county-level 8+ hour power outage exposure and CVD and respiratory hospitalizations in US 2018 Fee-For-Service Medicare beneficiaries for 4+, 8+, and 12+ hour power outages affecting  $\geq 1\%$  of county customers. Estimates are from conditional Poisson regression models adjusted for daily wind speed, temperature, and precipitation.

**Supplemental Figure 2:** Rate ratios and 95% confidence intervals for the association between county-level daily number of hours without power and cardiovascular- and respiratory-related hospitalizations in US 2018 Medicare Fee-For-Service beneficiaries. Estimates are from conditional Poisson regression models adjusted for daily wind speed, temperature, and precipitation. Results are from the best fitting model tested based on qAIC comparison, with a linear relationship between number of hours without power and respiratory hospitalizations or CVD hospitalizations, and 4 degrees of freedom on the lag dimension.

### Cardiovascular-related hospitalizations



### Respiratory-related hospitalizations

