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### **Supplemental Material**

#### **Fine Particulate Matter Exposure and Cancer Incidence: Analysis of SEER Cancer Registry Data from 1992-2016**

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#### **Table of Contents**

**Table S1.** Description of 16 SEER registries that are used in the analysis.

**Table S2.** Incident Rate Ratios and 95% confidence interval estimates for the association between cancer incidence and an increase of 10  $\mu\text{g}/\text{m}^3$   $\text{PM}_{2.5}$  exposure using the time varying model.

**Table S3.** Incident Rate Ratios and 95% confidence interval estimates for the association between cancer incidence and an increase of 10  $\mu\text{g}/\text{m}^3$   $\text{PM}_{2.5}$  exposure from 1988-2015 using a variety of different models.

**Figure S1.** Incident Rate Ratios and 95% confidence interval estimates for the association between average cancer incidence for SEER counties from 1992-2016 and an increase of 10  $\mu\text{g}/\text{m}^3$   $\text{PM}_{2.5}$  exposure from 1988-2015 for a controlled stepwise, model sensitivity analysis with control variables progressively added to the model.

**Figure S2.** Estimated response relationship between oral, rectal, liver, skin, kidney, and all cancer incidence and smoking (upper) and  $\text{PM}_{2.5}$  (lower). Smoking is estimated as the average percent of the county that identify as smokers from 1996-2012.  $\text{PM}_{2.5}$  is measured as the population-weighted average concentration in a county from 1988-2015.